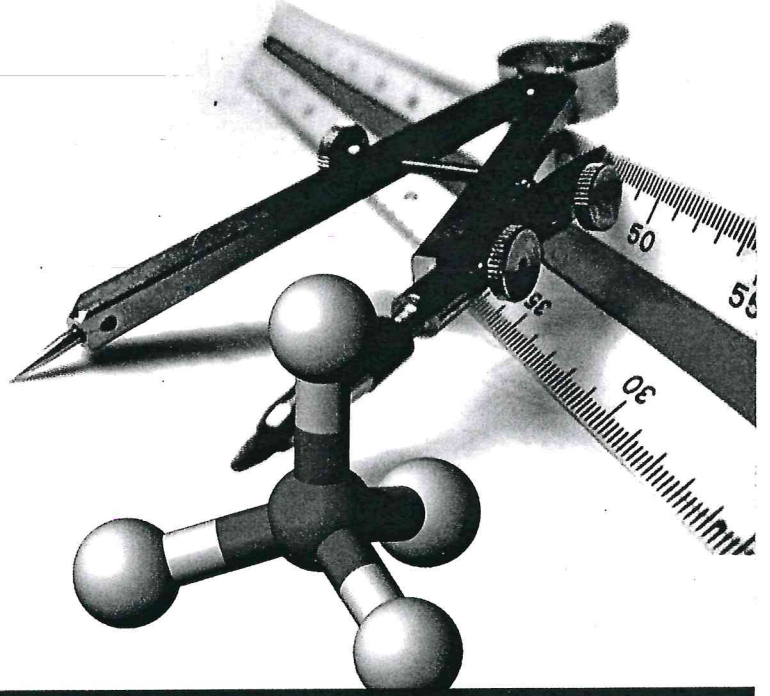
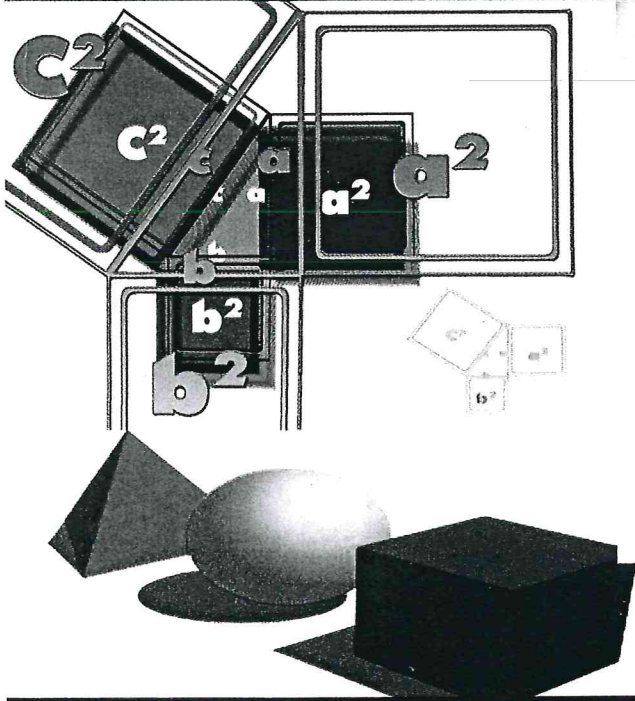


YÖS

GEOMETRY

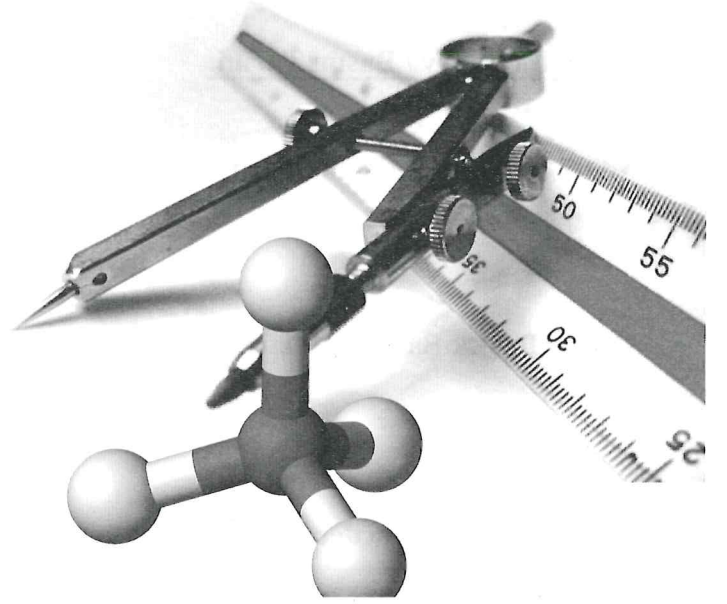
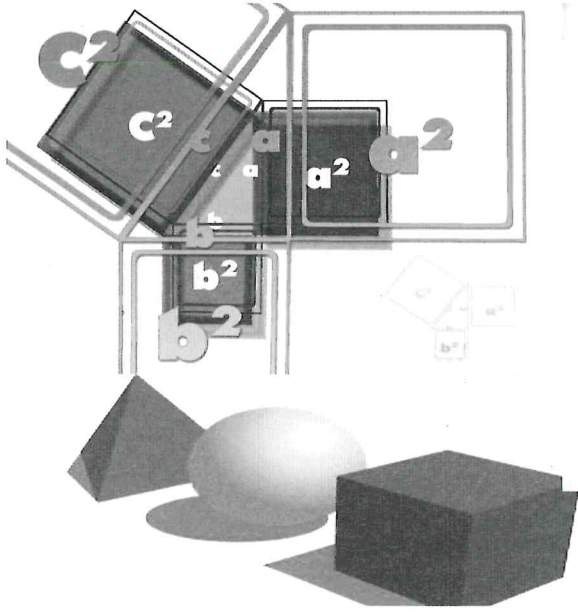


delta

Mehmet YEŞİL

YÖS

GEOMETRY



Mehmet YEŞİL

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Publisher / Yayımcı: Ortaklar Özel Eğitim Öğr. Yayın Hizmet. Tic. Ltd. Şti.

ISBN: 978-605-86-183-5-0

Printed History / Basım Tarihi:

Birinci Baskı : Kasım 2016

Yös Uzmanı : Süleyman Akbaş

Print / Baskı: Bassaray Matbaası / Tel: 0(232)457 71 48 İZMİR

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ÖNSÖZ

Geleceğinizi şekillendireceğiniz bir yolculuğa çıkmış olan değerli öğrencilerimiz. Bu yolculukta hayatınızın önemli dönüm noktalarından biri, lisans kazanım sınavıdır. Bu sınavla ulaşabileceğiniz bölüm ise sizin yaşam biçiminiz olacaktır.

Karşımıza çıkan bir şeyin zorluğunu kabul etmek o eylemi de zorlaştırır. Bu yüzden korku ve endişe insanı en çok yoran etkenlerdir. Zorlukları yok eden tılsım ise bir amaç taşımaktır.

"Dilimin sınırları, dünyanın sınırlarıdır." (Wittgenstein) sözünden anlaşılan; dil ve ifade eğitimi ile sosyal dünyanın kapsamı artacak. Evrensel bir çizim diliyle de akıl dünyanın sınırları büyüyecektir.

Bu kitapla birlikte geometri yolculuğunun size görüş açıklığı getirmesi dileğiyle...

PREFACE

To dear students who have started off a journey to shape their future...

... One of the milestones in this journey is the examination on the way to get a Bachelor's degree. The department you are going to hit via this exam will describe your lifestyle.

Perceiving a phenomenon as difficult; actually makes it difficult. That is why anxiety and fear are the most tiring factors for people. The charm of getting over these is having a mission and being dedicated to achieving this mission.

En route to your goals, dear students, I would like to remind the famous quote: "It always seems impossible, until it's done." and the significance of adopting "can do" attitude at all times. Always remember that you are the most important matter in order to advance science and civilisation.

I wish this book of Geometry brings a diversity of viewpoints and intersects your route with the road to enlightenment.

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ÜNİTE 1

UNIT 1

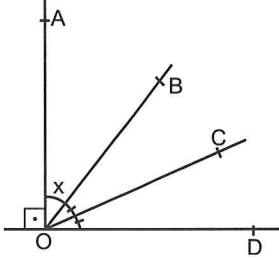
AÇILAR VE ÜÇGENLER

ANGLES AND TRIANGLES

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ÜNİTE 1
UNIT 1
AÇILAR
ANGLES
BÖLÜM 1
CHAPTER 1

1.

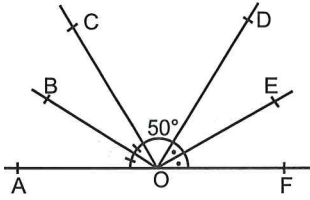
[OA \perp OD

$m(\widehat{AOC}) = 64^\circ$

$m(\widehat{AOB}) = x = ?$

- A) 52 B) 48 C) 46 D) 42 E) 38

2.



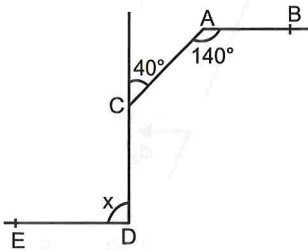
$m(\widehat{AOF}) = 180^\circ$

$m(\widehat{COD}) = 50^\circ$

$m(\widehat{BOE}) = ?$

- A) 125 B) 120 C) 115 D) 110 E) 105

3.

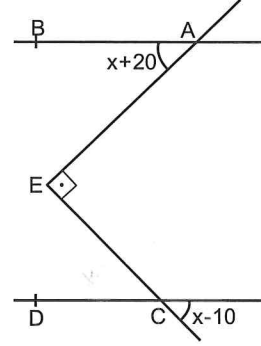


[AB // DE

$m(\widehat{EDC}) = x = ?$

- A) 100 B) 110 C) 120 D) 130 E) 140

4.

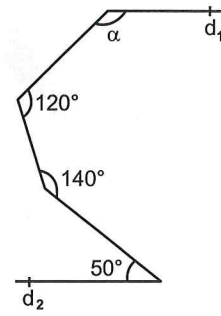


AB // CD

$x = ?$

- A) 60 B) 55 C) 50 D) 45 E) 40

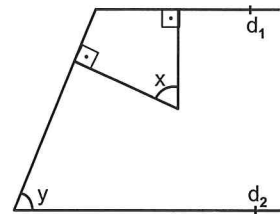
5.

 $d_1 // d_2$

$\alpha = ?$

- A) 160 B) 155 C) 150 D) 140 E) 135

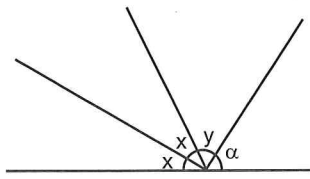
6.

 $d_1 // d_2$

$\frac{x}{y} = ?$

- A) 1 B)
- $\frac{2}{3}$
- C)
- $\frac{3}{2}$
- D)
- $\frac{4}{3}$
- E) 2

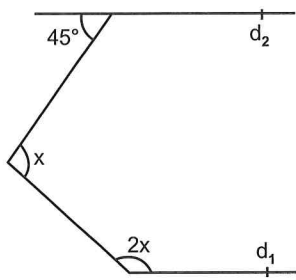
7.



$$\begin{aligned} x + y &= 90^\circ \\ y - x &= 10^\circ \\ \alpha &= ? \end{aligned}$$

- A) 35 B) 45 C) 50 D) 60 E) 65

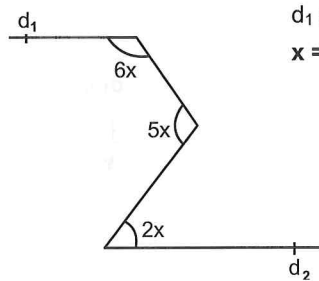
8.



$$\begin{aligned} d_1 // d_2 \\ x &= ? \end{aligned}$$

- A) 70 B) 75 C) 80 D) 85 E) 90

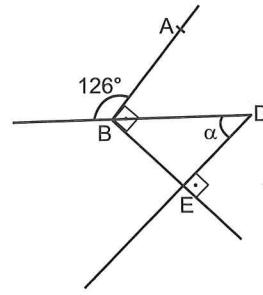
9.



$$\begin{aligned} d_1 // d_2 \\ x &= ? \end{aligned}$$

- A) 20 B) 30 C) 40 D) 45 E) 50

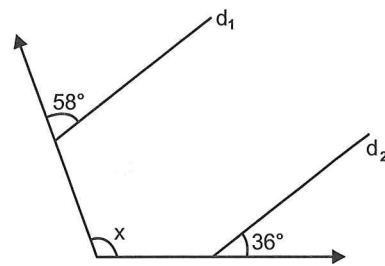
10.



$$\begin{aligned} [BA \perp [BE \\ [BE \perp [DE \\ m(\hat{BDE}) = \alpha = ? \end{aligned}$$

- A) 46 B) 48 C) 50 D) 52 E) 54

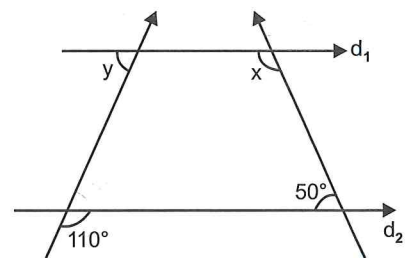
11.



$$\begin{aligned} d_1 // d_2 \\ x &= ? \end{aligned}$$

- A) 94 B) 98 C) 102 D) 106 E) 110

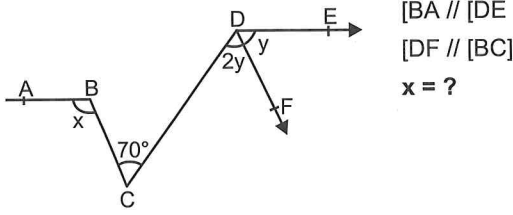
12.



$$\begin{aligned} d_1 // d_2 \\ x - y &= ? \end{aligned}$$

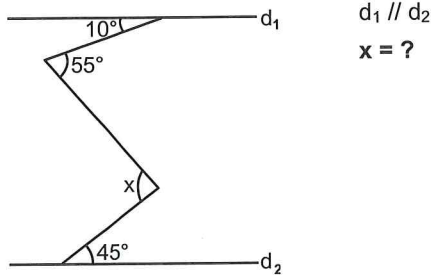
- A) 40 B) 50 C) 60 D) 70 E) 80

13.



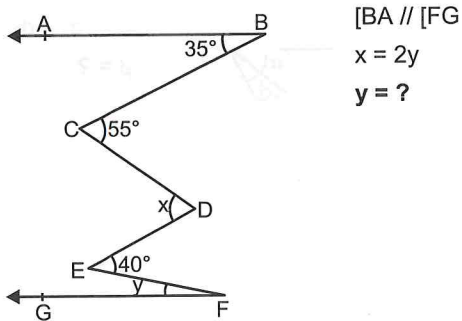
- A) 130 B) 135 C) 140 D) 145 E) 150

14.



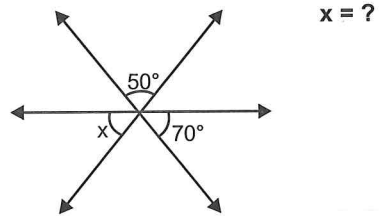
- A) 70 B) 80 C) 90 D) 100 E) 110

15.



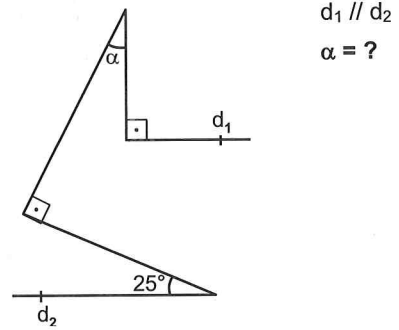
- A) 10 B) 20 C) 30 D) 40 E) 50

16.



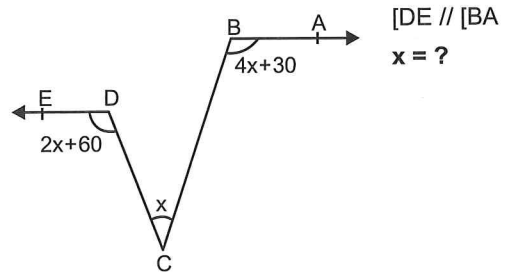
- A) 40 B) 45 C) 50 D) 55 E) 60

17.



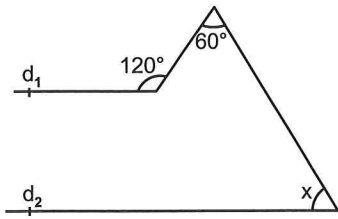
- A) 20 B) 25 C) 30 D) 35 E) 40

18.



- A) 18 B) 24 C) 30 D) 36 E) 42

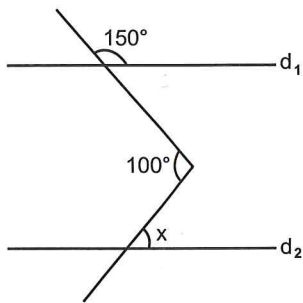
19.



$d_1 \parallel d_2$
 $x = ?$

- A) 60 B) 55 C) 50 D) 45 E) 40

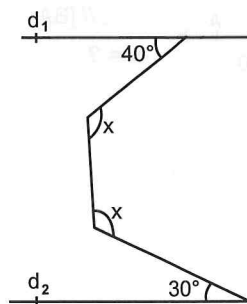
20.



$d_1 \parallel d_2$
 $x = ?$

- A) 50 B) 60 C) 70 D) 80 E) 85

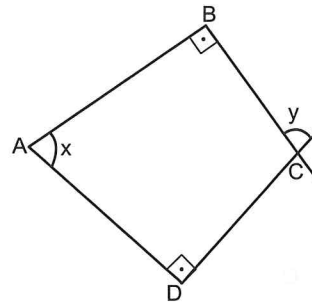
21.



$d_1 \parallel d_2$
 $x = ?$

- A) 120 B) 125 C) 130 D) 135 E) 140

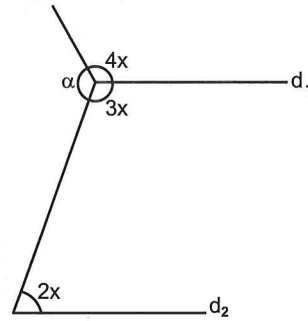
22.



$[AB] \perp [BC]$
 $[AD] \perp [DC]$
 $\frac{x}{y} = ?$

- A) $\frac{3}{2}$ B) 2 C) $\frac{4}{3}$ D) $\frac{2}{3}$ E) 1

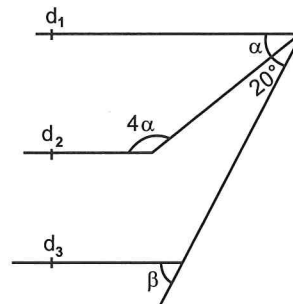
23.



$d_1 \parallel d_2$
 $\alpha = ?$

- A) 120 B) 108 C) 100 D) 130 E) 135

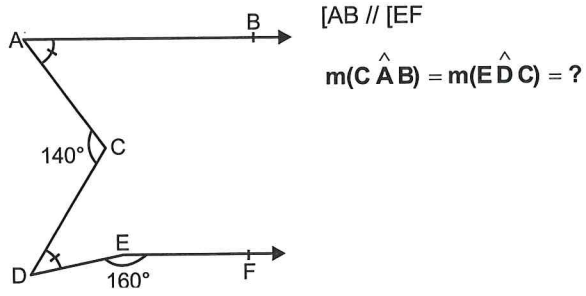
24.



$d_1 \parallel d_2 \parallel d_3$
 $\beta = ?$

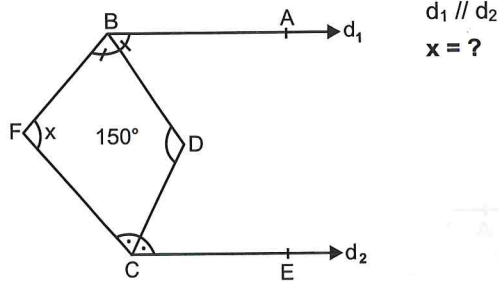
- A) 56 B) 60 C) 65 D) 72 E) 76

25.



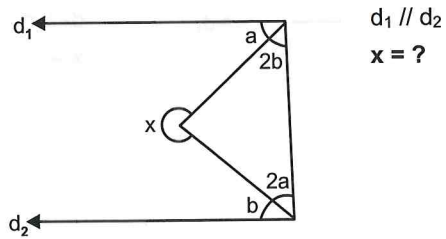
- A) 30 B) 40 C) 50 D) 60 E) 70

26.



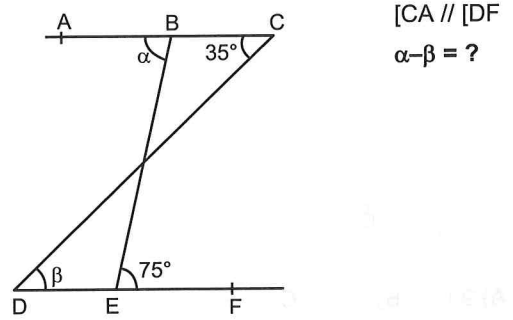
- A) 40 B) 50 C) 55 D) 60 E) 65

27.



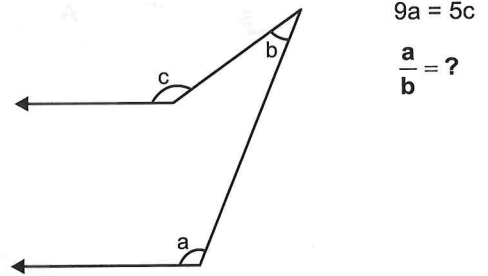
- A) 220 B) 240 C) 260 D) 280 E) 300

28.



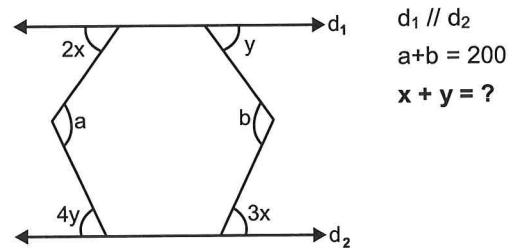
- A) 30 B) 35 C) 40 D) 45 E) 50

29.



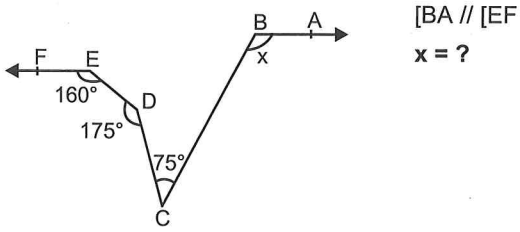
- A) $\frac{3}{4}$ B) $\frac{4}{5}$ C) $\frac{5}{4}$ D) $\frac{9}{4}$ E) $\frac{4}{9}$

30.



- A) 40 B) 45 C) 50 D) 55 E) 60

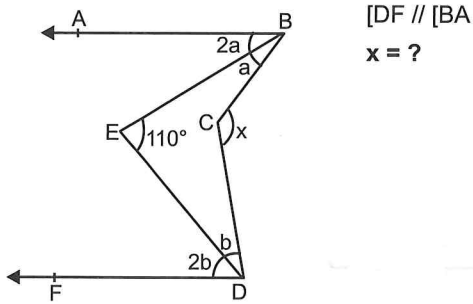
31.



[BA // EF]
x = ?

- A) 90 B) 95 C) 100 D) 105 E) 110

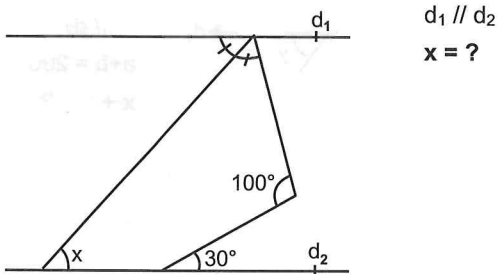
32.



[DF // BA]
x = ?

- A) 165 B) 160 C) 155 D) 150 E) 145

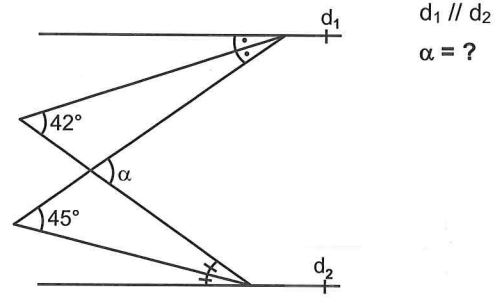
33.



$d_1 // d_2$
x = ?

- A) 55 B) 50 C) 45 D) 40 E) 35

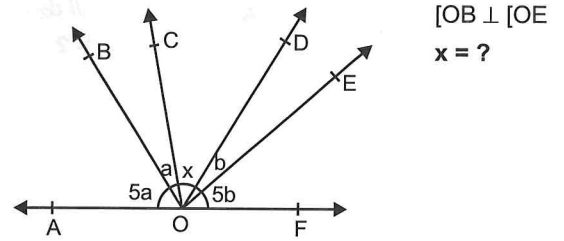
34.



$d_1 // d_2$
 $\alpha = ?$

- A) 62 B) 58 C) 56 D) 52 E) 48

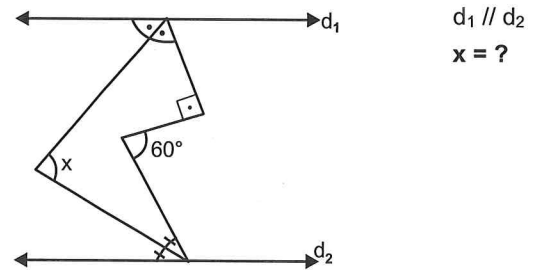
35.



[OB \perp OE]
x = ?

- A) 60 B) 64 C) 68 D) 72 E) 76

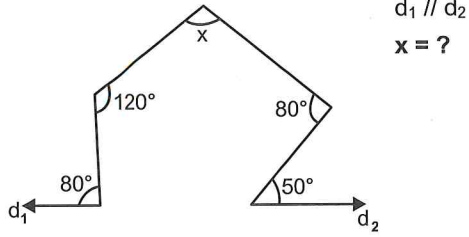
36.



$d_1 // d_2$
x = ?

- A) 50 B) 60 C) 65 D) 70 E) 75

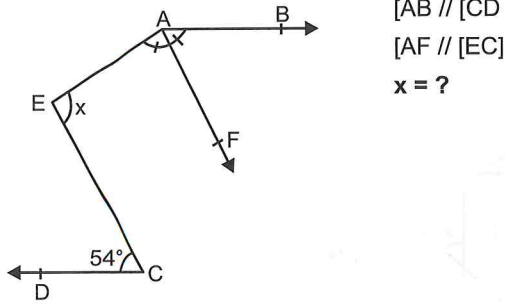
37.



- A) 100 B) 110 C) 130 D) 140 E) 150

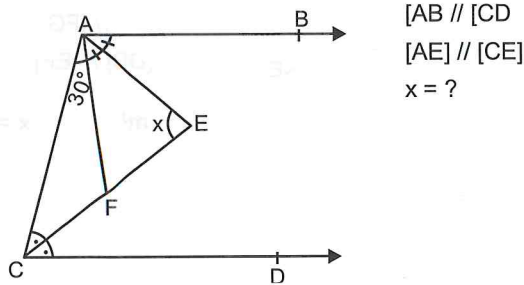
$200 + x = 130$

38.



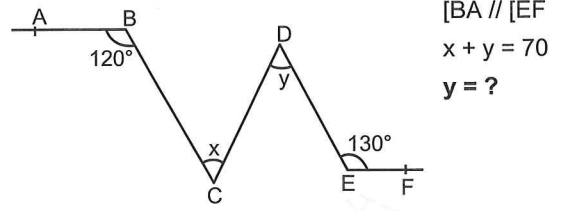
- A) 116 B) 124 C) 126 D) 134 E) 136

39.



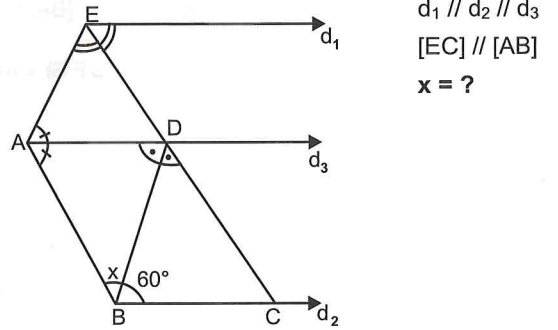
- A) 75 B) 85 C) 90 D) 95 E) 100

40.



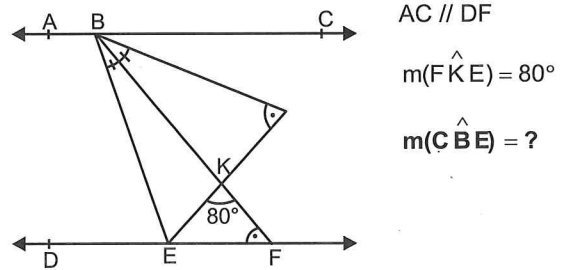
- A) 30 B) 35 C) 40 D) 45 E) 50

41.



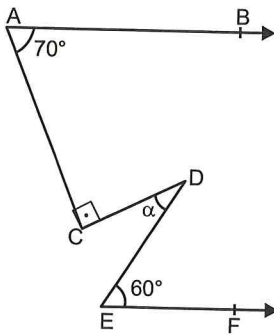
- A) 60 B) 65 C) 70 D) 75 E) 80

42.



- A) 65 B) 75 C) 85 D) 95 E) 100

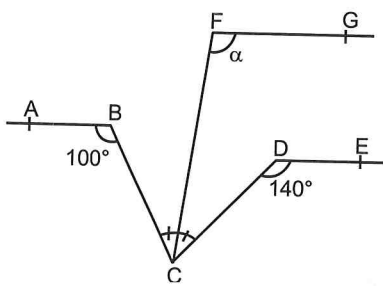
43.



[AB // [EF
 $m(\hat{CDE}) = \alpha = ?$

- A) 20 B) 30 C) 35 D) 40 E) 50

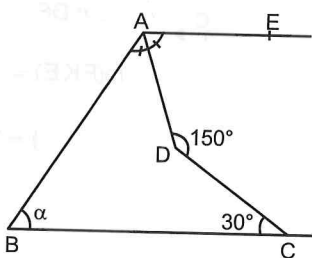
44.



[FG // [BA // [DE
 $m(\hat{CFG}) = \alpha = ?$

- A) 120 B) 125 C) 130 D) 115 E) 110

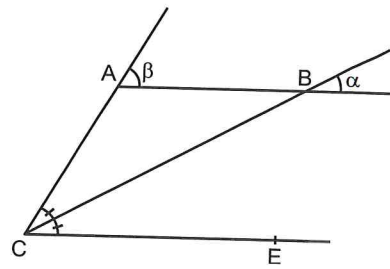
45.



[AE // [BC
 $m(\hat{ABC}) = \alpha = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

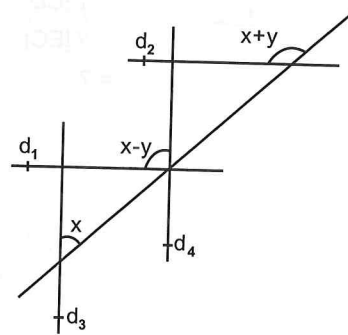
46.



[AB // [CE
 $\frac{\alpha}{\beta} = ?$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{1}{3}$ D) $\frac{1}{4}$ E) 1

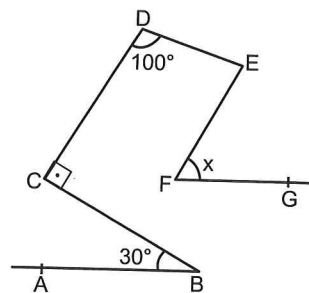
47.



$d_1 // d_2$
 $d_3 // d_4$
 $\frac{x}{y} = ?$

- A) 2 B) $\frac{3}{2}$ C) $\frac{3}{4}$ D) $\frac{2}{3}$ E) 1

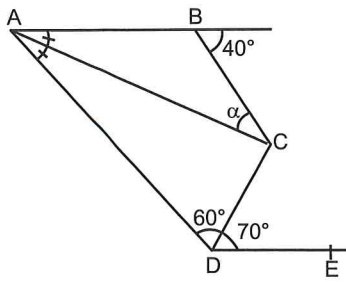
48.



[BA // [FG
 [DC] // [EF]
 $m(\hat{EFG}) = x = ?$

- A) 70 B) 65 C) 60 D) 55 E) 50

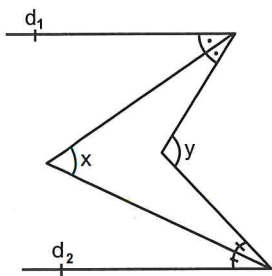
49.



[AB // [DE
 $\alpha = ?$

- A) 30 B) 25 C) 20 D) 15 E) 10

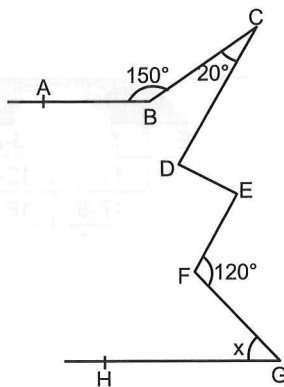
50.



$d_1 // d_2$
 $\frac{x}{y} = ?$

- A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{4}{5}$ E) $\frac{1}{2}$

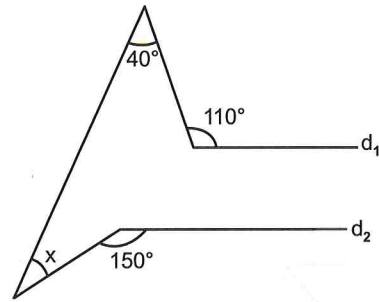
51.



[BA // [GH
 [DC // [EF
 $m(\widehat{FGH}) = x = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

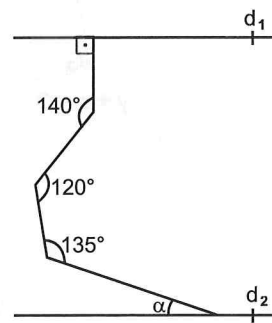
52.



$d_1 // d_2$
 $x = ?$

- A) 30 B) 40 C) 45 D) 50 E) 55

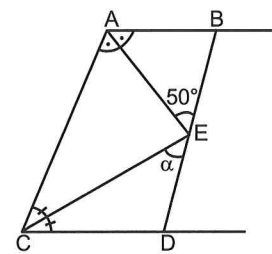
53.



$d_1 // d_2$
 $\alpha = ?$

- A) 10 B) 15 C) 25 D) 35 E) 40

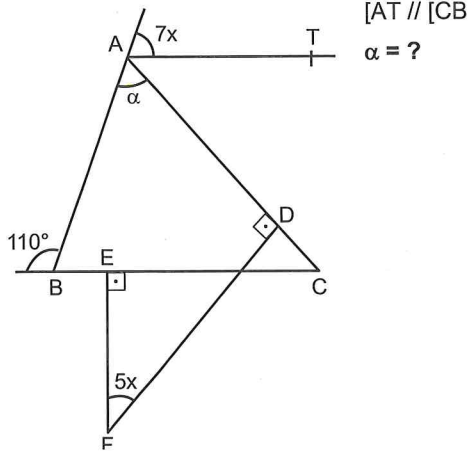
54.



[AB // [CD
 $m(\widehat{CED}) = \alpha = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

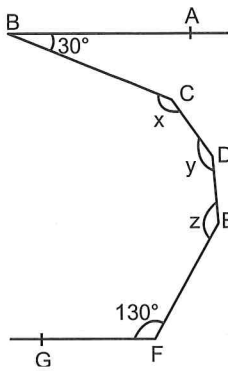
55.



[AT // CB
 $\alpha = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

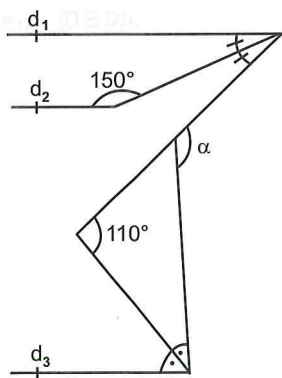
56.



[BA // FG
 $x + y + z = ?$

- A) 420 B) 440 C) 480 D) 520 E) 540

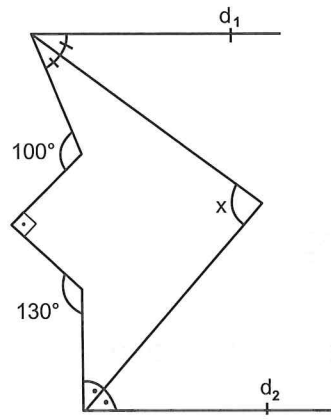
57.



$d_1 \parallel d_2 \parallel d_3$
 $\alpha = ?$

- A) 150 B) 155 C) 160 D) 165 E) 170

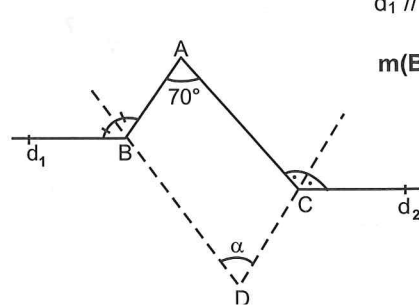
58.



$d_1 \parallel d_2$
 $x = ?$

- A) 90 B) 80 C) 75 D) 70 E) 60

59.



$d_1 \parallel d_2$
 $m(\hat{BDC}) = \alpha = ?$

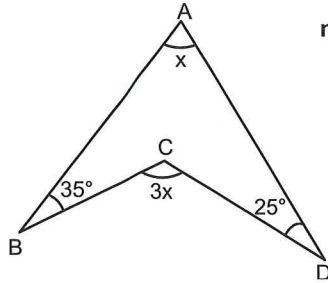
- A) 50 B) 55 C) 60 D) 65 E) 70

CEVAPLAR / ANSWERS

1-E	2-C	3-A	4-E	5-C	6-A
7-C	8-B	9-A	10-E	11-A	12-C
13-D	14-C	15-B	16-E	17-B	18-A
19-A	20-C	21-B	22-E	23-B	24-A
25-D	26-D	27-E	28-C	29-C	30-A
31-C	32-A	33-A	34-B	35-D	36-E
37-B	38-C	39-A	40-C	41-A	42-E
43-D	44-E	45-A	46-A	47-A	48-C
49-D	50-E	51-C	52-B	53-C	54-A
55-A	56-B	57-C	58-D	59-B	

ÜNİTE 1 UNIT 1	ÜÇGENDE AÇILAR ANGLES IN A TRIANGLE	BÖLÜM 2 CHAPTER 2
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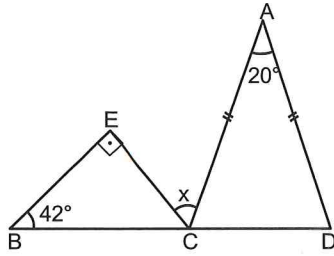
1.



$m(\hat{B} \hat{A} D) = x = ?$

- A) 42 B) 40 C) 38 D) 35 E) 30

2.



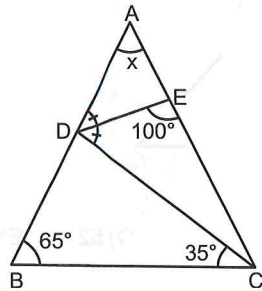
$[AC] \cap [BD] = \{C\}$

$|AC| = |AD|$

$m(\hat{E} \hat{C} A) = x = ?$

- A) 26 B) 38 C) 52 D) 54 E) 62

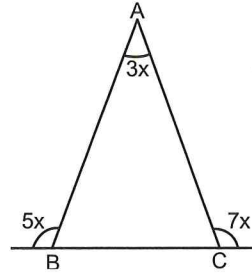
3.



$m(\hat{B} \hat{A} C) = x = ?$

- A) 50 B) 55 C) 60 D) 45 E) 40

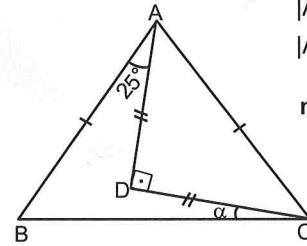
4.



$x = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

5.



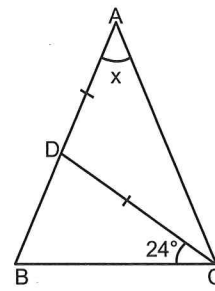
$|AB| = |AC|$

$|AD| = |DC|$

$m(\hat{B} \hat{D} C) = \alpha = ?$

- A) 18 B) 16 C) 12 D) 10 E) 8

6.



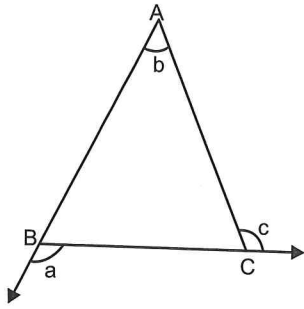
$|AB| = |AC|$

$|AD| = |DC|$

$m(\hat{A}) = x = ?$

- A) 48 B) 46 C) 44 D) 42 E) 38

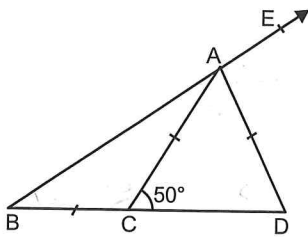
7.



$a + b + c = 240$
 $b = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

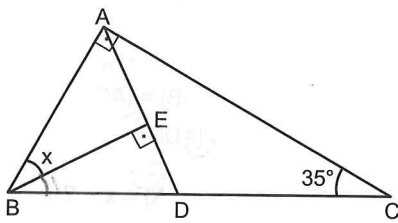
8.



$|BC| = |AC| = |AD|$
 $m(\hat{DAE}) = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

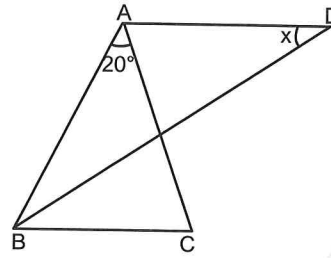
9.



$[EB] \perp [AD]$
 $[AC] \perp [AB]$
 $|BD| = |DC|$
 $x = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

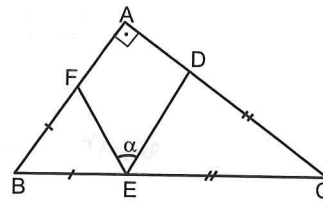
10.



$|AB| = |AC| = |AD|$
 $[AD] \parallel [BC]$
 $x = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

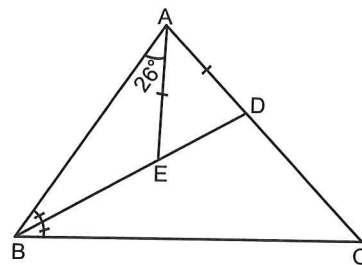
11.



$\alpha = ?$

- A) 30 B) 45 C) 60 D) 65 E) 70

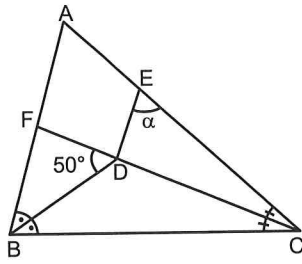
12.



$|AE| = |AD|$
 $m(\hat{ACB}) = ?$

- A) 13 B) 26 C) 39 D) 52 E) 65

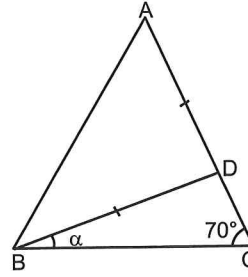
13.



$[DE] \parallel [AB]$
 $D \in [FC]$
 $m(\hat{D}EC) = \alpha = ?$

- A) 60 B) 68 C) 72 D) 80 E) 88

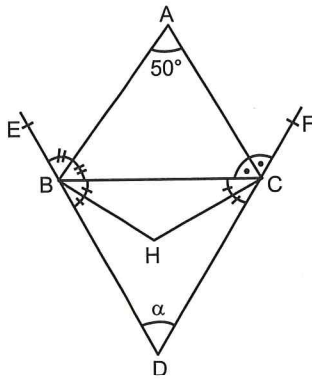
16.



$|AB| = |AC|$
 $|AD| = |DB|$
 $m(\hat{D}BC) = \alpha = ?$

- A) 20 B) 30 C) 40 D) 50 E) 60

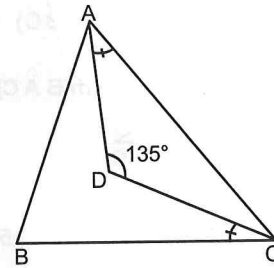
14.



$m(\hat{E}DF) = \alpha = ?$

- A) 90 B) 85 C) 80 D) 75 E) 70

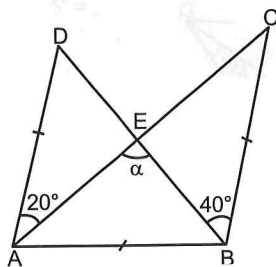
17.



$m(\hat{A}CB) = ?$

- A) 25 B) 30 C) 35 D) 40 E) 45

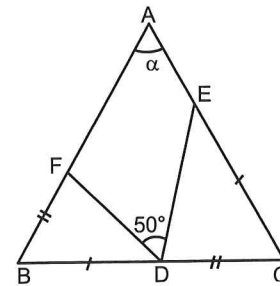
15.



$[AC] \cap [DB] = \{E\}$
 $m(\hat{A}EB) = \alpha = ?$

- A) 70 B) 80 C) 90 D) 100 E) 110

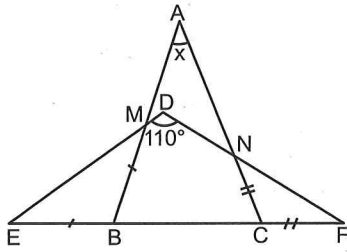
18.



$(\hat{A}BC) \Rightarrow$
 $|AB| = |AC|$
 $|DC| = |BF|$
 $|EC| = |BD|$
 $m(\hat{B}AC) = \alpha = ?$

- A) 60 B) 70 C) 80 D) 85 E) 90

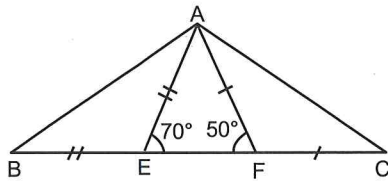
19.



$|EB| = |MB|$
 $|NC| = |CF|$
 $x = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

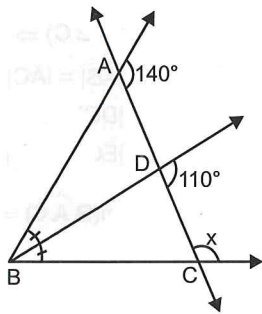
20.



$\triangle ABC \Rightarrow$
 $m(\hat{BAC}) = ?$

- A) 110 B) 120 C) 130 D) 140 E) 150

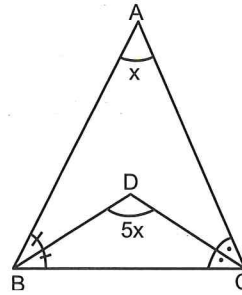
21.



$x = ?$

- A) 90 B) 100 C) 110 D) 120 E) 130

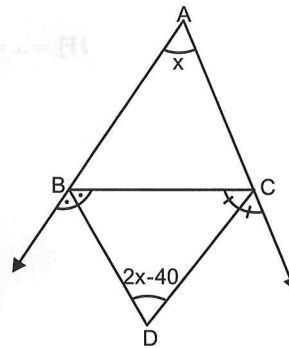
22.



$x = ?$

- A) 18 B) 20 C) 24 D) 30 E) 36

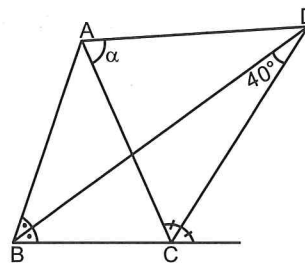
23.



$x = ?$

- A) 36 B) 42 C) 52 D) 56 E) 60

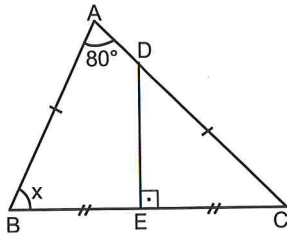
24.



$\alpha = ?$

- A) 30 B) 40 C) 50 D) 60 E) 70

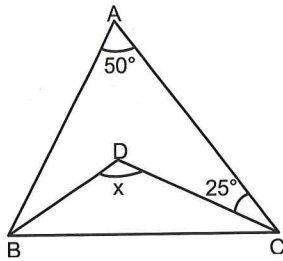
25.



$\triangle ABC \Rightarrow$
 $|AB| = |DC|$
 $|BE| = |EC|$
 $x = ?$

- A) 60 B) 75 C) 80 D) 85 E) 90

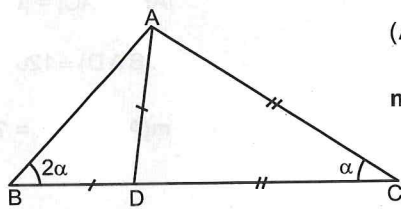
26.



$|AB| = |BC|$
 $|DB| = |DC|$
 $x = ?$

- A) 130 B) 135 C) 140 D) 150 E) 160

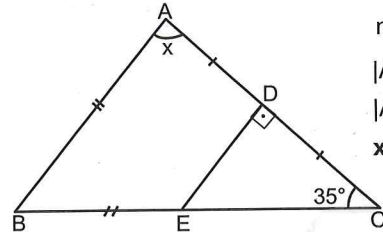
27.



$\triangle ABC \Rightarrow$
 $m(\hat{BAC}) = ?$

- A) 100 B) 108 C) 110 D) 120 E) 135

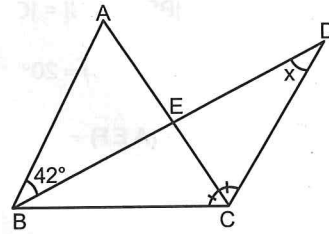
28.



$m(\hat{BCA}) = 35^\circ$
 $|AB| = |BE|$
 $|AD| = |DC|$
 $x = ?$

- A) 80 B) 85 C) 90 D) 95 E) 105

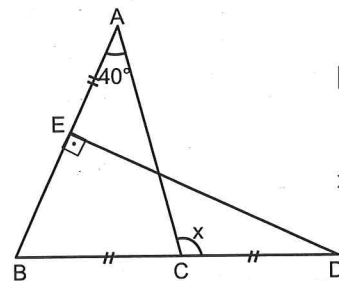
29.



$|AB| = |AC|$
 $|BC| = |CD|$
 $m(\hat{ABD}) = 42^\circ$
 $x = ?$

- A) 12 B) 16 C) 20 D) 24 E) 28

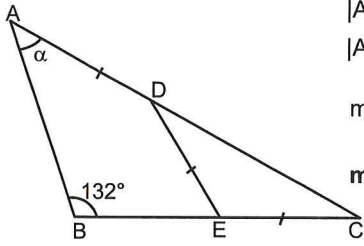
30.



$\triangle EBD \Rightarrow$
 $|AE| = |BC| = |CD|$
 $m(\hat{BAC}) = 40^\circ$
 $x = ?$

- A) 110 B) 120 C) 125 D) 130 E) 140

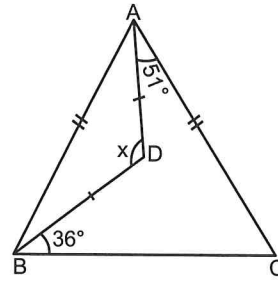
31.



$|AD| = |ED| = |EC|$
 $|AB| = |BE|$
 $m(\hat{CBA}) = 132^\circ$
 $m(\hat{BAC}) = \alpha = ?$

- A) 24 B) 28 C) 32 D) 36 E) 40

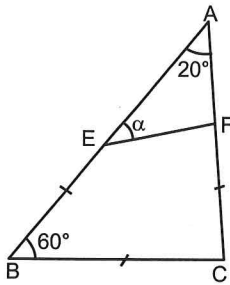
34.



$|AB| = |AC|$
 $|DA| = |DB|$
 $m(\hat{ADB}) = x = ?$

- A) 116 B) 120 C) 124 D) 130 E) 142

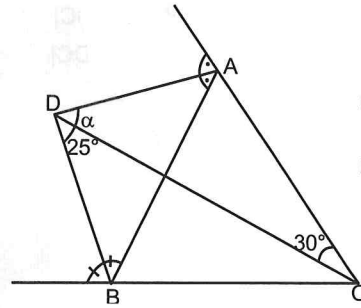
32.



$|BE| = |BC| = |CF|$
 $m(\hat{BAC}) = 20^\circ$
 $m(\hat{AEF}) = \alpha = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

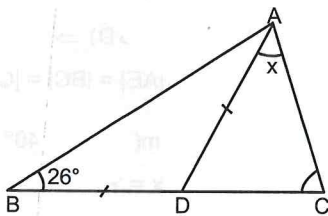
35.



$m(\hat{BDC}) = 25^\circ$
 $m(\hat{DCA}) = 30^\circ$
 $m(\hat{ADC}) = \alpha = ?$

- A) 10 B) 20 C) 25 D) 35 E) 40

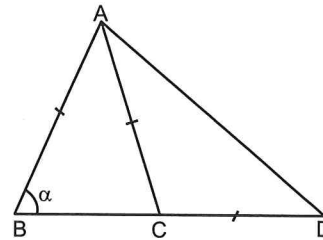
33.



$|BD| = |AD|$
 $|BA| = |BC|$
 $m(\hat{ABC}) = 26^\circ$
 $m(\hat{DAC}) = x = ?$

- A) 51 B) 63 C) 66 D) 71 E) 73

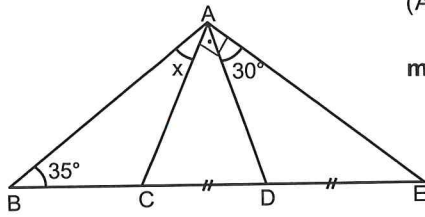
36.



$|AB| = |AC| = |CD|$
 $m(\hat{BAD}) = 120^\circ$
 $m(\hat{ABD}) = \alpha = ?$

- A) 20 B) 30 C) 40 D) 50 E) 60

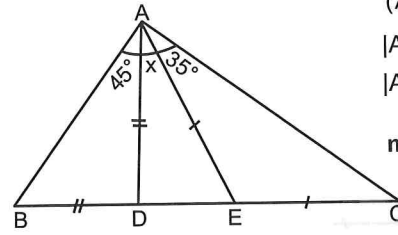
37.



$\triangle (ABE) \Rightarrow$
 $m(\widehat{BAC}) = x = ?$

- A) 30 B) 25 C) 22 D) 20 E) 18

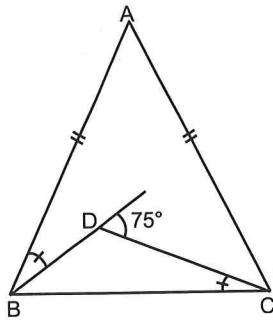
40.



$\triangle (ABC) \Rightarrow$
 $|AD| = |DE|$
 $|AE| = |EC|$
 $m(\widehat{DAE}) = x = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

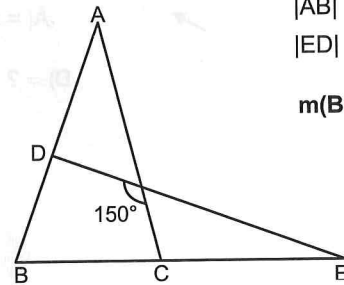
38.



$|AB| = |AC|$
 $m(\widehat{BAC}) = ?$

- A) 30 B) 28 C) 25 D) 20 E) 18

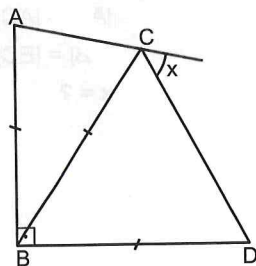
41.



$|AB| = |AC|$
 $|ED| = |EB|$
 $m(\widehat{BAC}) = ?$

- A) 20 B) 28 C) 30 D) 35 E) 40

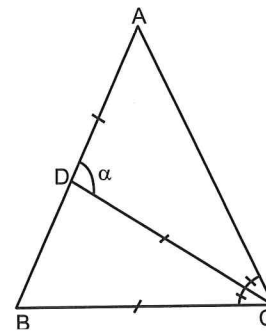
39.



$|BA| = |BC| = |BD|$
 $[AB] \perp [BD]$
 $x = ?$

- A) 35 B) 40 C) 45 D) 50 E) 60

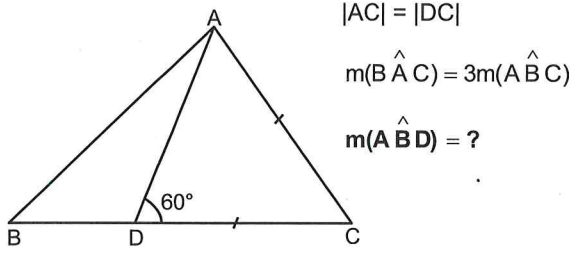
42.



$|AD| = |DC| = |CB|$
 $|AB| = |AC|$
 $m(\widehat{ADC}) = \alpha = ?$

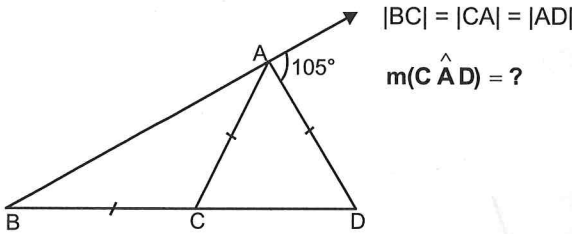
- A) 135 B) 120 C) 110 D) 108 E) 100

43.



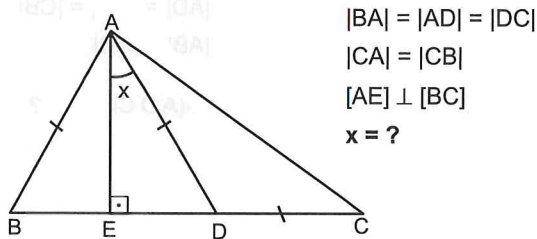
- A) 30 B) 40 C) 50 D) 60 E) 70

44.



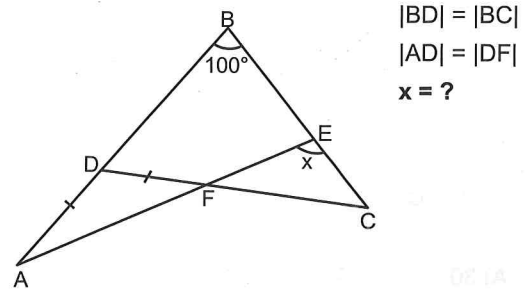
- A) 20 B) 25 C) 30 D) 35 E) 40

45.



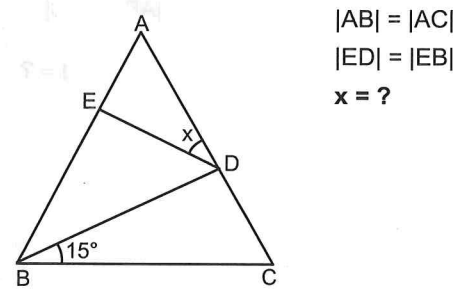
- A) 12 B) 18 C) 24 D) 30 E) 36

46.



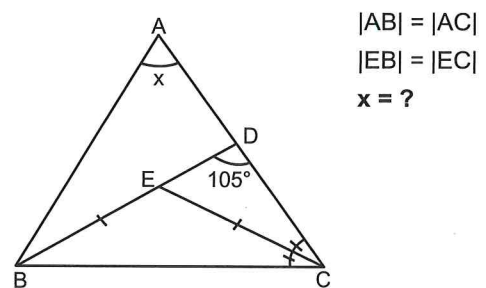
- A) 110 B) 115 C) 120 D) 125 E) 130

47.



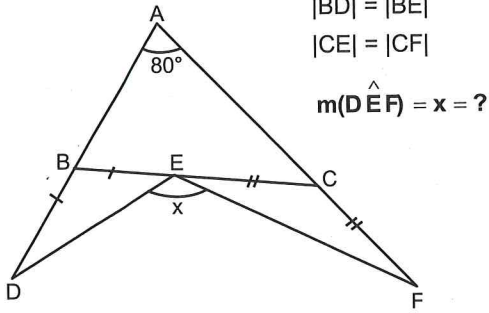
- A) 25 B) 30 C) 35 D) 40 E) 45

48.



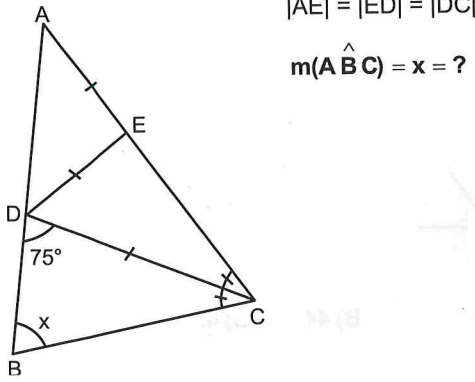
- A) 80 B) 70 C) 40 D) 45 E) 50

49.



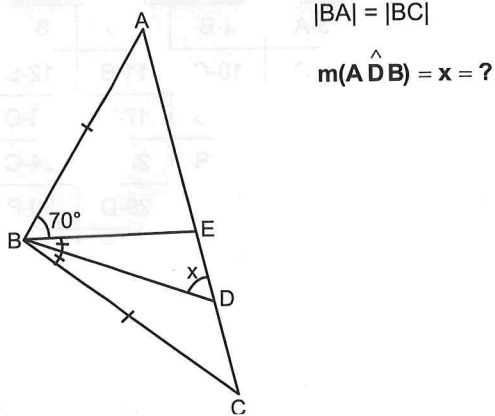
- A) 130 B) 120 C) 110 D) 105 E) 100

50.



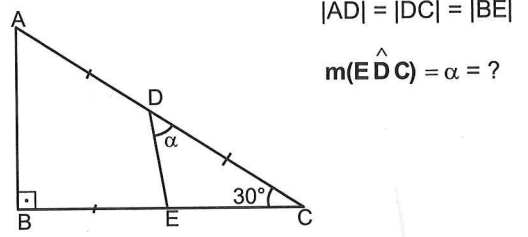
- A) 70 B) 65 C) 60 D) 58 E) 55

51.



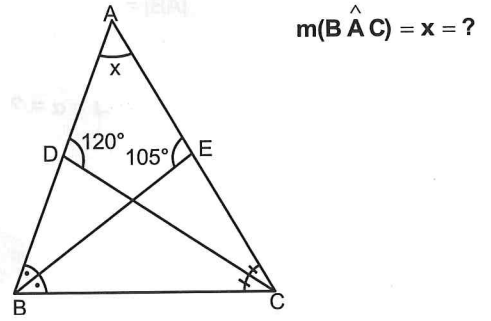
- A) 40 B) 50 C) 55 D) 60 E) 65

52.



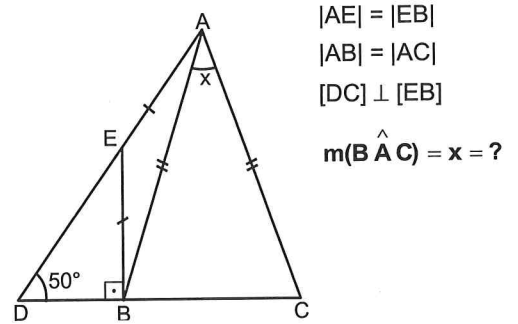
- A) 25 B) 30 C) 35 D) 45 E) 40

53.



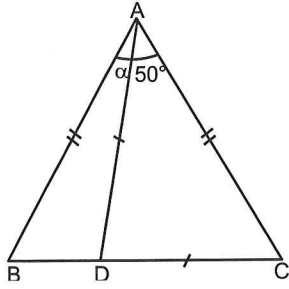
- A) 25 B) 30 C) 35 D) 40 E) 50

54.



- A) 40 B) 36 C) 32 D) 30 E) 24

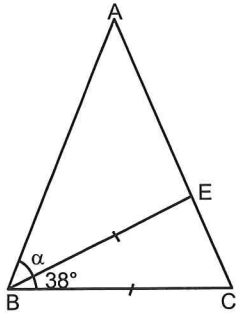
55.



$(\triangle ABC) \Rightarrow$
 $m(\widehat{BAD}) = \alpha = ?$

- A) 20 B) 25 C) 30 D) 32 E) 35

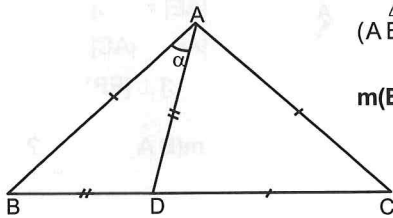
56.



$|AB| = |AC|$
 $|BC| = |BE|$
 $m(\widehat{ABE}) = \alpha = ?$

- A) 40 B) 38 C) 35 D) 34 E) 33

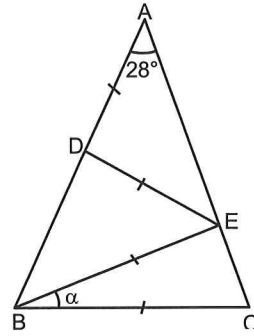
57.



$(\triangle ABC) \Rightarrow$
 $m(\widehat{BAD}) = \alpha = ?$

- A) 36 B) 40 C) 42 D) 44 E) 50

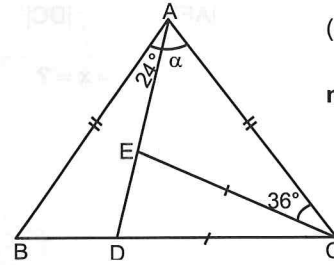
58.



$(\triangle ABC) \Rightarrow$
 $m(\widehat{EBC}) = \alpha = ?$

- A) 18 B) 16 C) 14 D) 12 E) 10

59.



$(\triangle ABC) \Rightarrow$
 $m(\widehat{DAC}) = \alpha = ?$

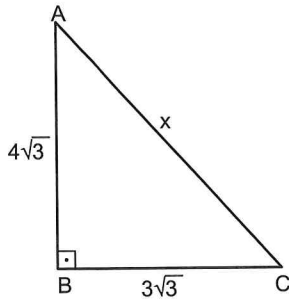
- A) 46 B) 44 C) 42 D) 40 E) 36

CEVAPLAR / ANSWERS

1-E	2-C	3-A	4-B	5-D	6-C
7-C	8-D	9-D	10-C	11-B	12-B
13-D	14-C	15-B	16-B	17-E	18-C
19-A	20-B	21-B	22-B	23-C	24-C
25-A	26-A	27-D	28-E	29-D	30-B
31-C	32-E	33-A	34-E	35-D	36-C
37-B	38-A	39-C	40-B	41-E	42-D
43-A	44-E	45-B	46-C	47-B	48-A
49-A	50-E	51-C	52-D	53-B	54-A
55-C	56-E	57-A	58-D	59-B	

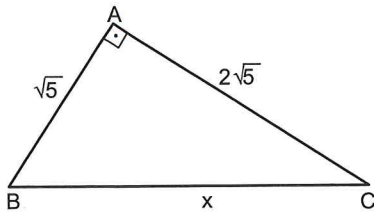
ÜNİTE 1
UNIT 1
DİK ÜÇGEN
RIGHT TRIANGLES
BÖLÜM 3
CHAPTER 3

1.

 $x = ? \text{ cm}$

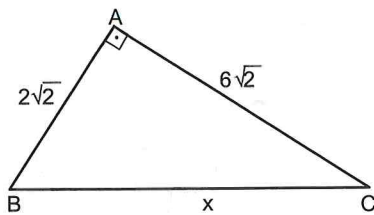
- A) $6\sqrt{3}$ B) $5\sqrt{3}$ C) $6\sqrt{2}$ D) 8 E) $2\sqrt{5}$

2.

 $x = ? \text{ cm}$

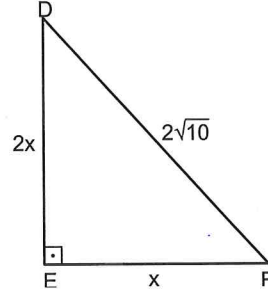
- A) 4 B) $3\sqrt{5}$ C) 5 D) $2\sqrt{6}$ E) $2\sqrt{7}$

3.

 $x = ? \text{ cm}$

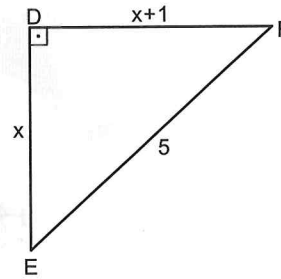
- A) $2\sqrt{10}$ B) $3\sqrt{10}$ C) 9 D) 8 E) $4\sqrt{5}$

4.

 $x = ? \text{ cm}$

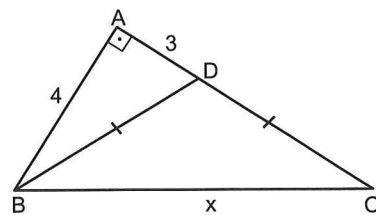
- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{5}$ D) 8 E) $\sqrt{6}$

5.

 $x = ? \text{ cm}$

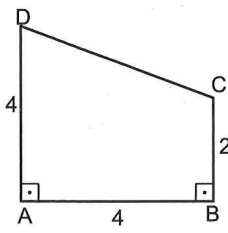
- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

6.


 $\triangle ABC \Rightarrow$
 $x = ? \text{ cm}$

- A) 8 B) $6\sqrt{2}$ C) 10 D) $4\sqrt{5}$ E) 9

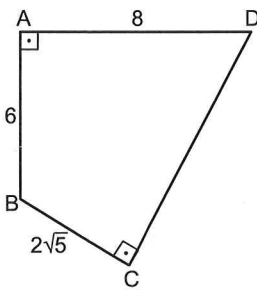
7.



$|DC| = ? \text{ cm}$

- A) $2\sqrt{5}$ B) 4 C) $3\sqrt{2}$ D) $2\sqrt{7}$ E) $4\sqrt{2}$

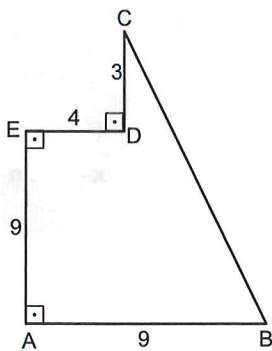
8.



$|DC| = ? \text{ cm}$

- A) 9 B) 8 C) 7 D) $3\sqrt{5}$ E) $4\sqrt{5}$

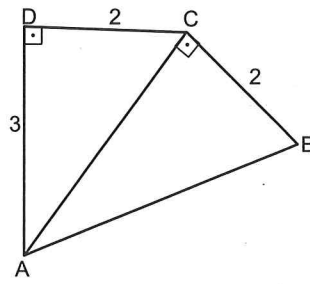
9.



$|BC| = ? \text{ cm}$

- A) 18 B) 17 C) 15 D) $5\sqrt{3}$ E) 13

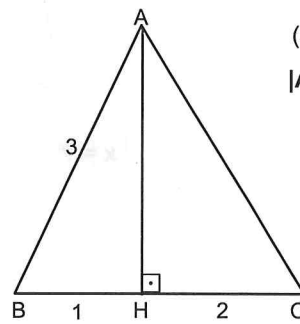
10.



$|AB| = ? \text{ cm}$

- A) $\sqrt{15}$ B) $2\sqrt{3}$ C) $\sqrt{10}$ D) $\sqrt{17}$ E) 4

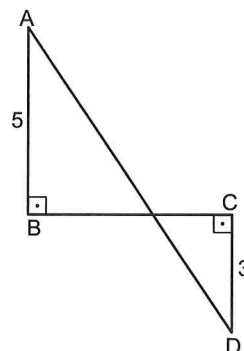
11.



$(\triangle ABC) \Rightarrow$
 $|AC| = ? \text{ cm}$

- A) 4 B) $\sqrt{15}$ C) $\sqrt{13}$ D) $2\sqrt{3}$ E) $\sqrt{10}$

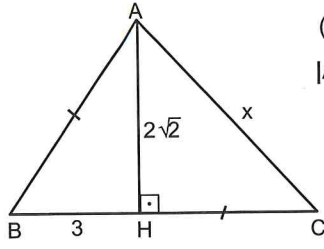
12.



$|BC| = 6 \text{ cm}$
 $|AD| = ? \text{ cm}$

- A) 10 B) 13 C) 15 D) 16 E) 17

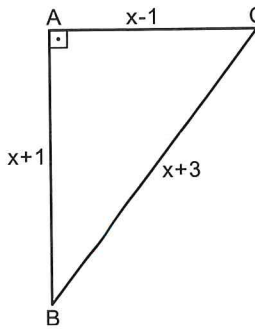
13.



$(\triangle ABC) \Rightarrow$
 $|AC| = x = ? \text{ cm}$

- A) 5 B) 4 C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) $2\sqrt{7}$

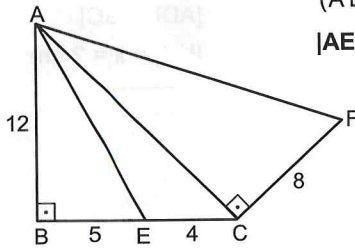
14.



$\angle(ABC) = ? \text{ br}$
 $(\text{Primeter}(ABC) = ? \text{ u})$

- A) 12 B) 15 C) 18 D) 21 E) 24

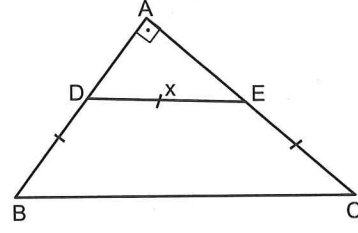
15.



$(\triangle ABC) \Rightarrow$
 $|AE| + |AC| + |AF| = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

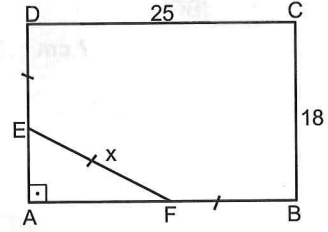
16.



$(\triangle ABC) \Rightarrow$
 $|AB| = 8 \text{ cm}$
 $|AC| = 9 \text{ cm}$
 $|DE| = x = ? \text{ cm}$

- A) $3\sqrt{2}$ B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) 5 E) $2\sqrt{7}$

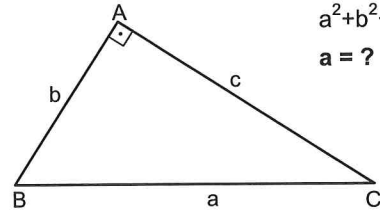
17.



$(ABCD)$ dikdörtgen
 $(ABCD, \text{rectangle})$
 $|EF| = x = ? \text{ cm}$

- A) 17 B) 15 C) 13 D) 12 E) 10

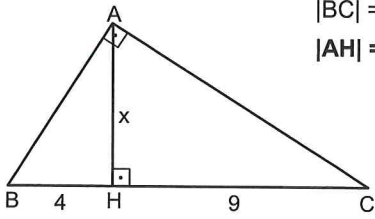
18.



$a^2 + b^2 + c^2 = 250$
 $a = ?$

- A) $3\sqrt{5}$ B) $4\sqrt{5}$ C) $5\sqrt{5}$ D) 13 E) 15

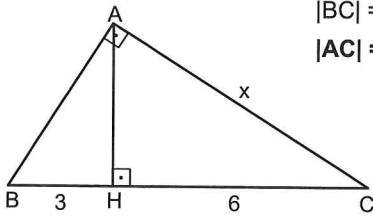
19.



$|BC| = 13 \text{ cm}$
 $|AH| = x = ? \text{ cm}$

- A) 6 B) 8 C) $2\sqrt{6}$ D) $2\sqrt{5}$ E) $3\sqrt{2}$

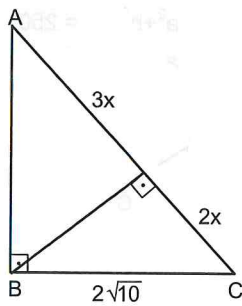
20.



$|BC| = 9 \text{ cm}$
 $|AC| = x = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $3\sqrt{2}$ D) $3\sqrt{5}$ E) $3\sqrt{6}$

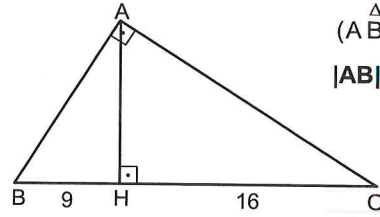
21.



$|AC| = 5x = ? \text{ cm}$

- A) 20 B) 15 C) 10 D) $2\sqrt{10}$ E) $3\sqrt{10}$

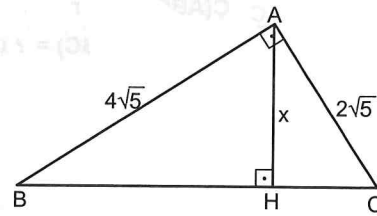
22.



$(\triangle ABC) \Rightarrow$
 $|AB| + |AC| = ? \text{ cm}$

- A) 30 B) 32 C) 33 D) 34 E) 35

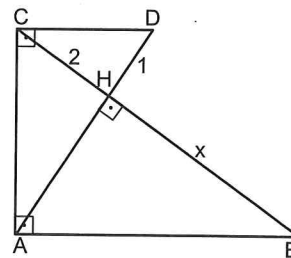
23.



$(\triangle ABC) \Rightarrow$
 $|AH| = x = ? \text{ cm}$

- A) 5 B) 4 C) 3 D) $2\sqrt{2}$ E) $\sqrt{6}$

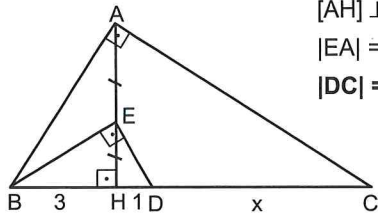
24.



$[AD] \perp [BC]$
 $|HB| = x = ? \text{ cm}$

- A) 8 B) 7 C) 6 D) 5 E) 4

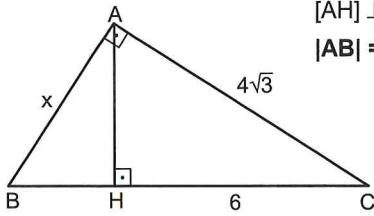
25.



$[AH] \perp [BC]$
 $|EA| = |EH|$
 $|DC| = x = ? \text{ cm}$

- A) 6 B) 5 C) 4 D) 3 E) 2

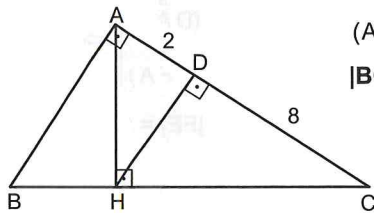
26.



$[AH] \perp [BC]$
 $|AB| = x = ? \text{ cm}$

- A) 4 B) 3 C) $2\sqrt{2}$ D) $\sqrt{6}$ E) 2

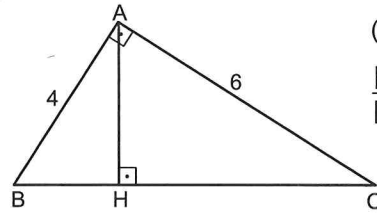
27.



$\triangle ABC \Rightarrow$
 $|BC| = ? \text{ cm}$

- A) 15 B) 13 C) 10 D) $4\sqrt{5}$ E) $5\sqrt{5}$

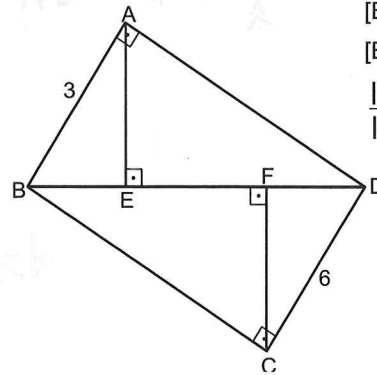
28.



$\triangle ABC \Rightarrow$
 $\frac{|BH|}{|HC|} = ?$

- A) $\frac{2}{3}$ B) $\frac{3}{4}$ C) $\frac{4}{5}$ D) $\frac{5}{6}$ E) $\frac{4}{9}$

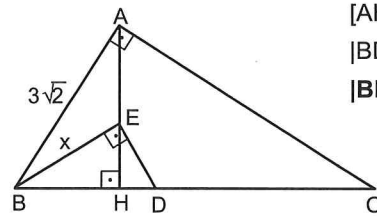
29.



$[BD] \perp [AE]$
 $[BD] \perp [FC]$
 $\frac{|BE|}{|FD|} = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{1}{4}$ D) $\frac{2}{3}$ E) $\frac{3}{4}$

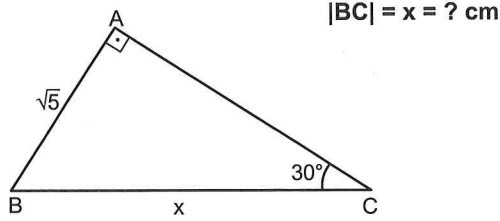
30.



$[AH] \perp [BC]$
 $|BD| = |DC|$
 $|BE| = x = ? \text{ cm}$

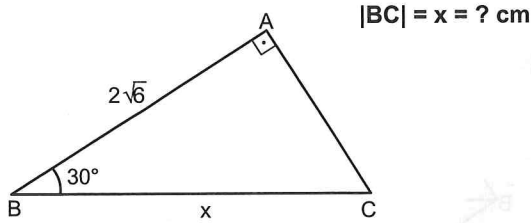
- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

31.



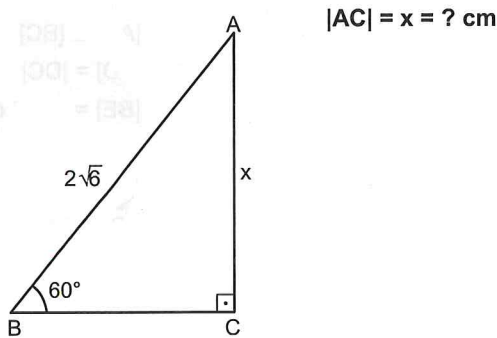
- A) 4 B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) 5 E) $2\sqrt{7}$

32.



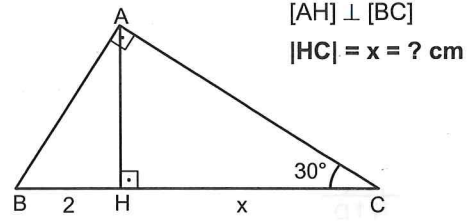
- A) $8\sqrt{2}$ B) $6\sqrt{2}$ C) $4\sqrt{2}$ D) 6 E) 5

33.



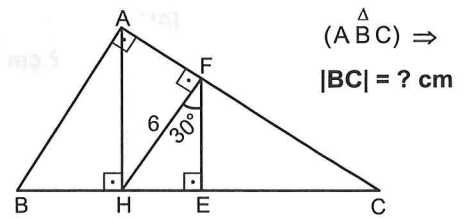
- A) $6\sqrt{2}$ B) $5\sqrt{2}$ C) $4\sqrt{2}$ D) $3\sqrt{2}$ E) $2\sqrt{2}$

34.



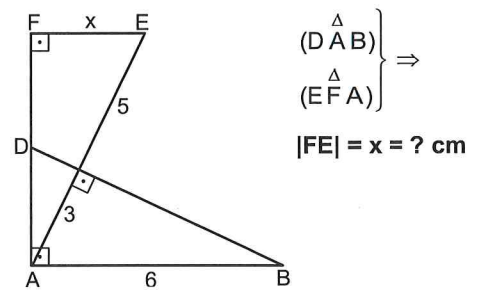
- A) 8 B) 7 C) 5 D) 4 E) 6

35.



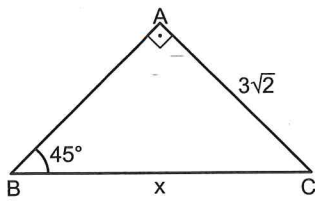
- A) 16 B) 18 C) 15 D) 12 E) 14

36.



- A) 3 B) 4 C) 4,5 D) 5 E) 3,5

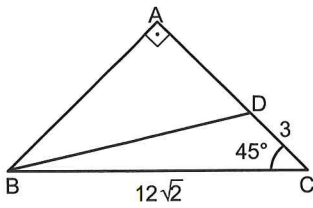
37.



$|BC| = x = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) $6\sqrt{2}$ E) $2\sqrt{3}$

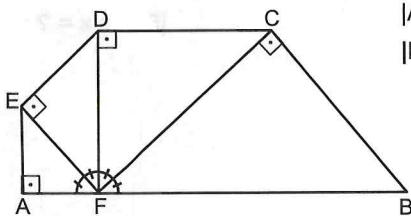
38.



$(\triangle ABC) \Rightarrow$
 $|BD| = ? \text{ cm}$

- A) 17 B) 16 C) 15 D) 13 E) 10

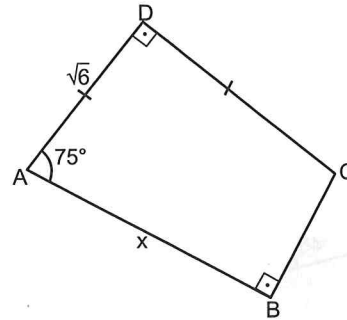
39.



$|AB| = 20 \text{ cm}$
 $|DC| = ? \text{ cm}$

- A) 10 B) 9 C) 8 D) 7 E) 6

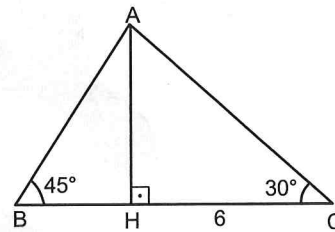
40.



$|AB| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) $\sqrt{6}$ E) 6

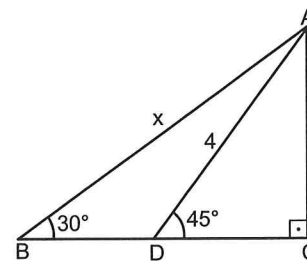
41.



$(\triangle ABC) \Rightarrow$
 $|AB| = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) $2\sqrt{7}$

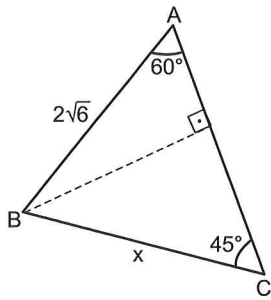
42.



$(\triangle ABC) \Rightarrow$
 $|AB| = x = ? \text{ cm}$

- A) $5\sqrt{2}$ B) $4\sqrt{2}$ C) $3\sqrt{2}$ D) 6 E) 5

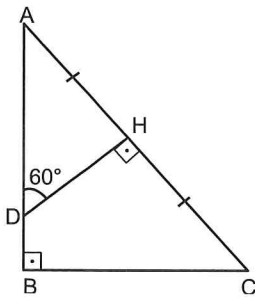
43.



$|BC| = x = ? \text{ cm}$

- A) 7 B) 5 C) $4\sqrt{2}$ D) $2\sqrt{7}$ E) 6

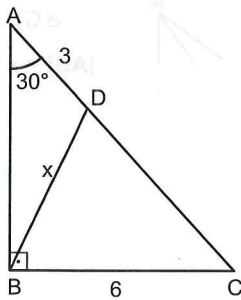
44.



$\triangle ABC \Rightarrow$
 $\frac{|DB|}{|AD|} = ?$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{\sqrt{3}}{3}$ E) $\frac{2\sqrt{3}}{3}$

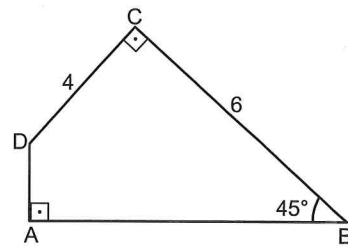
45.



$\triangle ABC \Rightarrow$
 $|BD| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) $3\sqrt{7}$

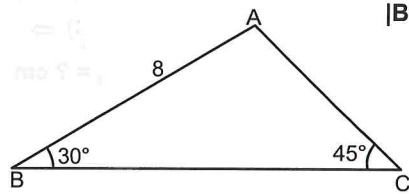
46.



$|AB| = ? \text{ cm}$

- A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) 6 D) 7 E) $5\sqrt{2}$

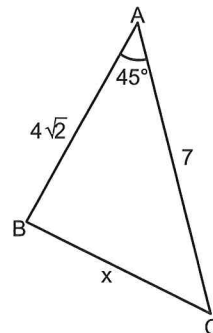
47.



$|BC| = ? \text{ cm}$

- A) $2+2\sqrt{3}$ B) $4+4\sqrt{3}$ C) $6+4\sqrt{3}$
 D) $8+4\sqrt{3}$ E) $2+4\sqrt{3}$

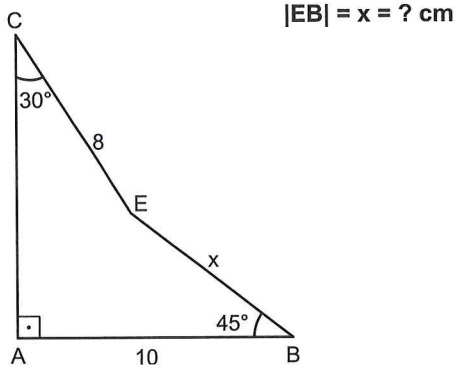
48.



$|BC| = x = ? \text{ cm}$

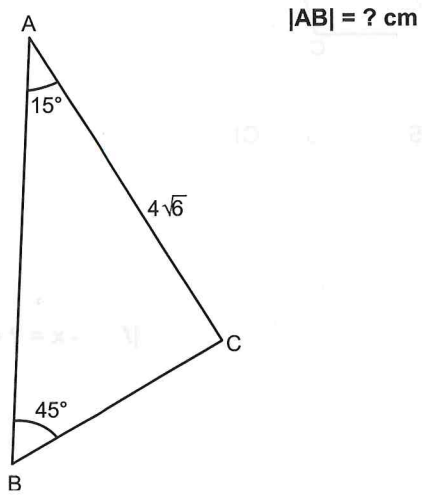
- A) 3 B) 4 C) 5 D) 6 E) 7

49.



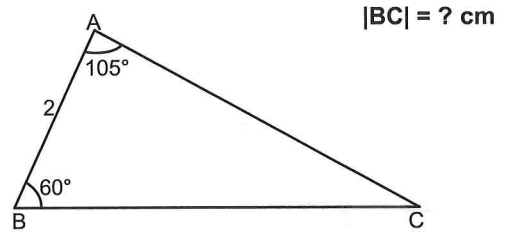
- A) 9 B) 8 C) 7 D) 6 E) $6\sqrt{2}$

50.



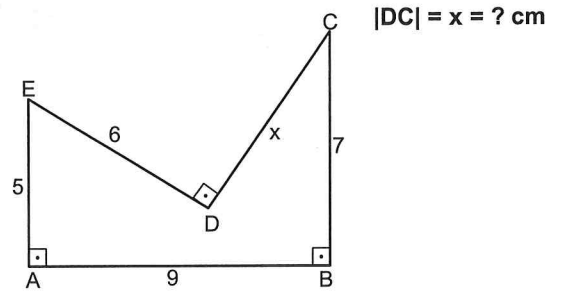
- A) 12 B) 13 C) 15 D) 17 E) 18

51.



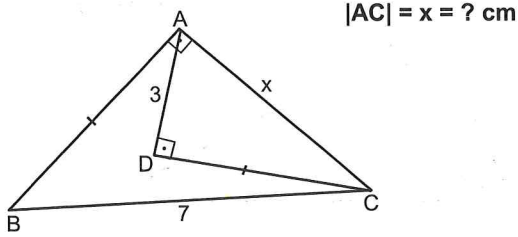
- A) $3 + 2\sqrt{3}$ B) $4 + 2\sqrt{3}$ C) $8 + 4\sqrt{3}$
 D) $2 + 4\sqrt{3}$ E) $4 + 4\sqrt{3}$

52.



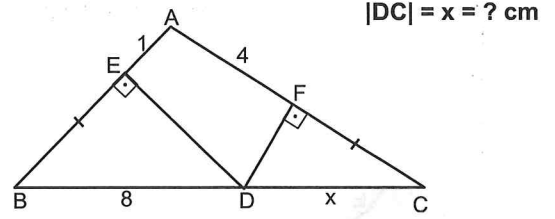
- A) 5 B) 6 C) 7 D) 8 E) 9

53.



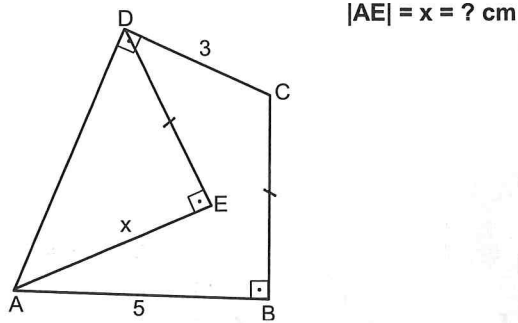
- A) $2\sqrt{5}$ B) $\sqrt{29}$ C) 5 D) $\sqrt{30}$ E) 6

56.



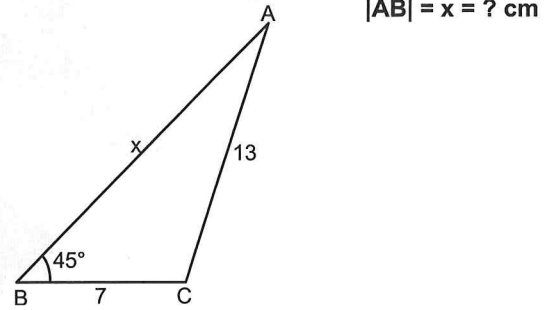
- A) 9 B) 8 C) 5 D) 7 E) 6

54.



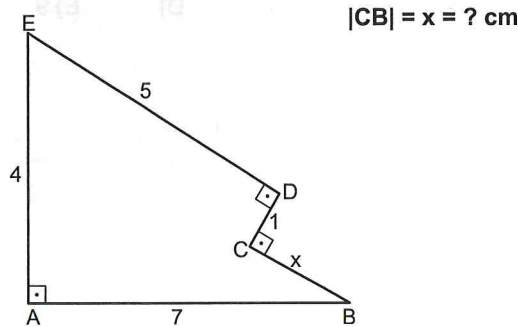
- A) $2\sqrt{5}$ B) $3\sqrt{2}$ C) 4 D) $2\sqrt{3}$ E) $\sqrt{10}$

57.



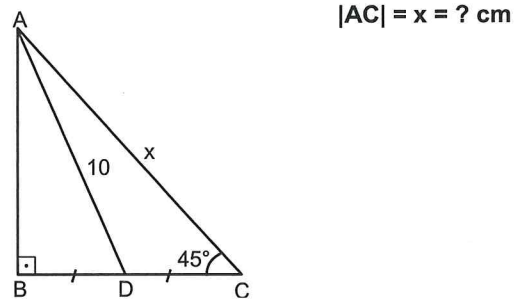
- A) 25 B) 20 C) 17 D) 15 E) $12\sqrt{2}$

55.



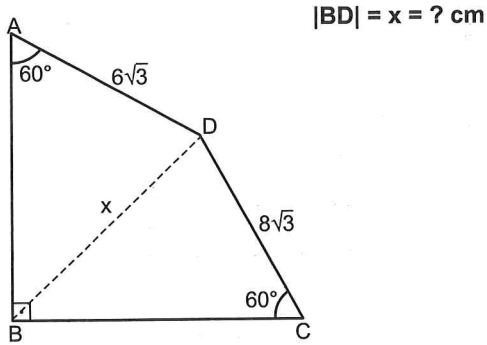
- A) 2 B) 3 C) 2,5 D) 3,5 E) 4

58.



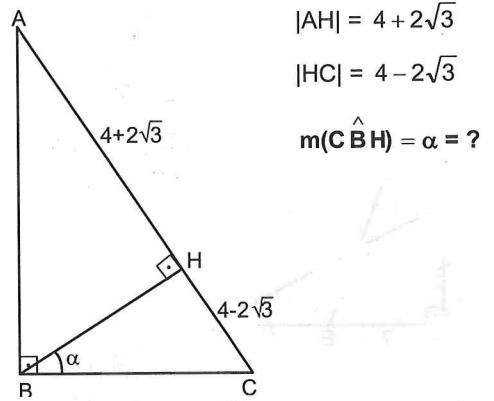
- A) $4\sqrt{10}$ B) 12 C) $2\sqrt{30}$ D) 11 E) $6\sqrt{3}$

59.



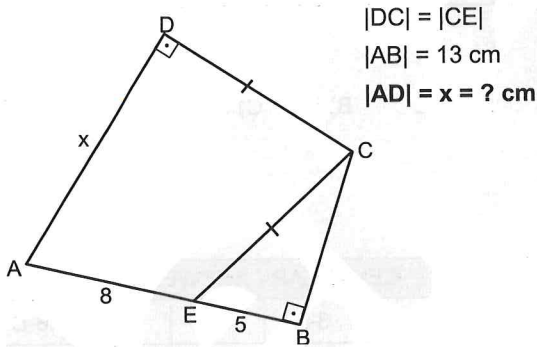
- A) 25 B) 18 C) 17 D) 15 E) 10

61.



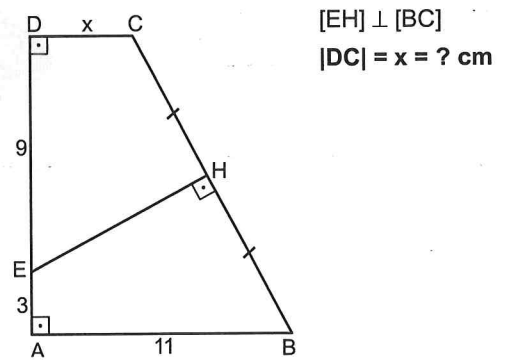
- A) 10 B) 15 C) 20 D) 22,5 E) 30

60.



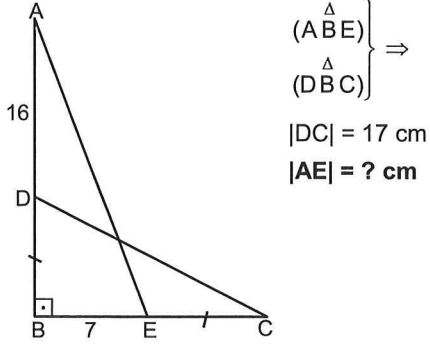
- A) 13 B) 12 C) 11 D) 10 E) 9

62.



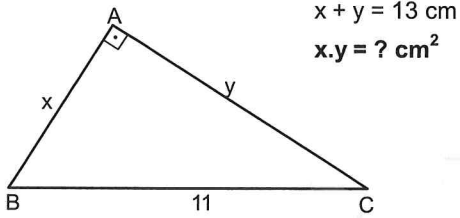
- A) 8 B) 7 C) 6 D) 5 E) 4

63.



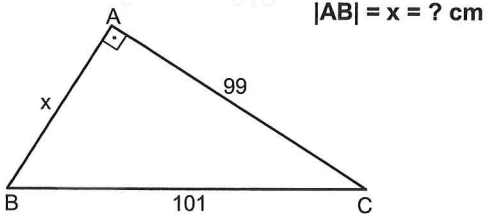
- A) 17 B) 20 C) 22 D) 24 E) 25

64.



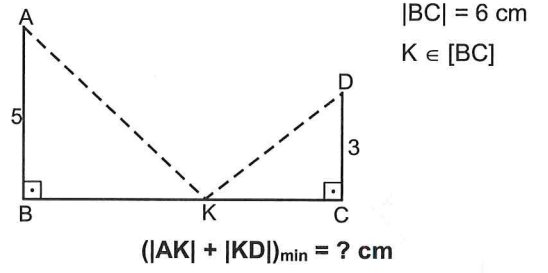
- A) 36 B) 28 C) 26 D) 24 E) 22

65.



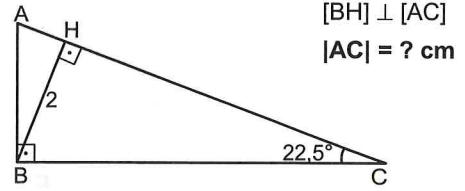
- A) 40 B) 35 C) 20 D) 15 E) 10

66.



- A) 13 B) 10 C) 9 D) 15 E) 17

67.



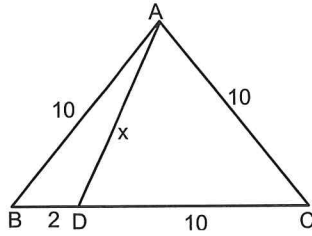
- A) $4\sqrt{2}$ B) 6 C) 7 D) 8 E) $5\sqrt{2}$

CEVAPLAR / ANSWERS

1-B	2-C	3-E	4-A	5-C	6-D
7-A	8-E	9-E	10-D	11-D	12-A
13-A	14-E	15-B	16-D	17-C	18-C
19-A	20-E	21-C	22-E	23-B	24-A
25-D	26-A	27-E	28-E	29-C	30-C
31-B	32-C	33-D	34-E	35-A	36-B
37-A	38-C	39-C	40-A	41-D	42-B
43-E	44-A	45-E	46-E	47-B	48-C
49-E	50-A	51-B	52-C	53-B	54-C
55-B	56-D	57-E	58-A	59-D	60-B
61-B	62-B	63-E	64-D	65-C	66-B
67-A					

ÜNİTE 1 UNIT 1	İKİZKENAR ÜÇGEN ISOSCELES TRIANGLE	BÖLÜM 4 CHAPTER 4
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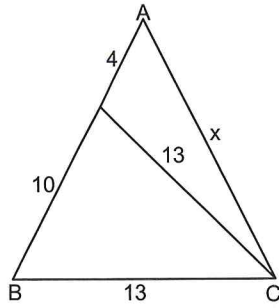
1.



$\triangle ABC \Rightarrow$
 $|AD| = x = ? \text{ cm}$

- A) 8 B) $\sqrt{67}$ C) $\sqrt{70}$ D) $6\sqrt{2}$ E) $4\sqrt{5}$

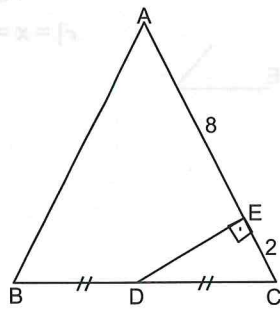
2.



$\triangle ABC \Rightarrow$
 $|AC| = x = ? \text{ cm}$

- A) $2\sqrt{55}$ B) 15 C) $4\sqrt{5}$ D) $12\sqrt{2}$ E) $10\sqrt{3}$

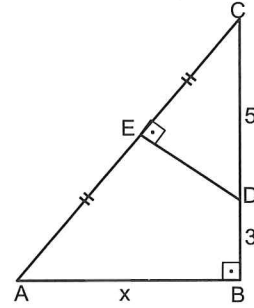
3.



$|AB| = |AC|$
 $|BD| = |DC|$
 $[DE] \perp [AC]$
 $|BC| = ?$

- A) 6 B) $2\sqrt{10}$ C) $2\sqrt{15}$ D) $4\sqrt{5}$ E) 10

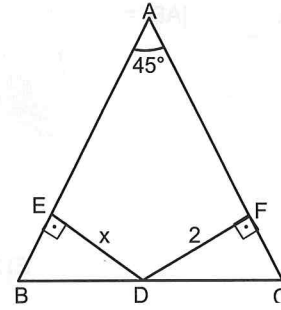
4.



$[AB] \perp [BC]$
 $[DE] \perp [AC]$
 $|AE| = |EC|$
 $|AB| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

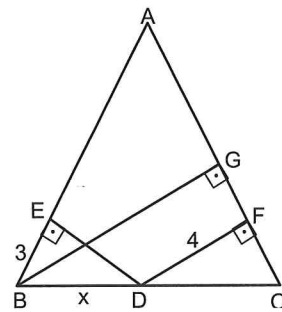
5.



$[DE] \perp [AB]$
 $[DF] \perp [AC]$
 $|AB| = |AC| = 7\sqrt{2} \text{ cm}$
 $|ED| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 7 E) 8

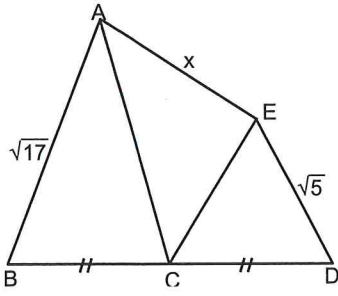
6.



$\triangle ABC \Rightarrow$
 $|AB| = |AC|$
 $|DF| = 4 \text{ cm}$
 $|BG| = 8 \text{ cm}$
 $|EB| = 3 \text{ cm}$
 $|BD| = x = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

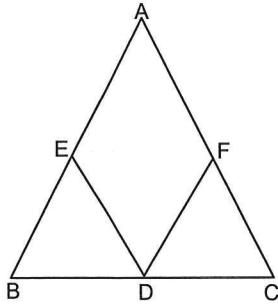
7.



$|AB| = |AC|$
 $|EC| = |ED|$
 $|BD| = 4 \text{ cm}$
 $|BC| = |CD|$
 $|AE| = x = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $2\sqrt{5}$ E) 5

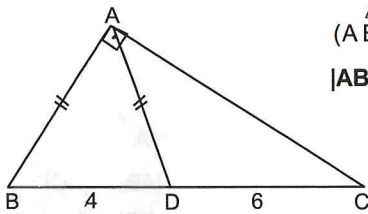
8.



$[ED] \parallel [AC]$
 $[DF] \parallel [AB]$
 $\text{Ç}(AEDF) = 30 \text{ cm}$
 $|AB| = |AC|$
 $|AB| = ? \text{ cm}$

- A) 12 B) 13 C) 14 D) 15 E) 30

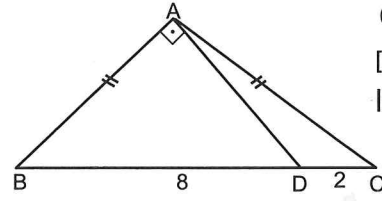
9.



$(\triangle ABC) \Rightarrow$
 $|AB| = |AD| = ? \text{ cm}$

- A) 6 B) 5 C) $4\sqrt{5}$ D) $3\sqrt{5}$ E) $2\sqrt{5}$

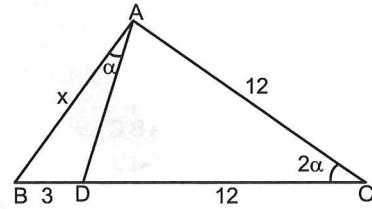
10.



$(\triangle ABC) \Rightarrow$
 $[AB] \perp [AD]$
 $|AB| = |AC| = ? \text{ cm}$

- A) $3\sqrt{2}$ B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) 6 E) $2\sqrt{10}$

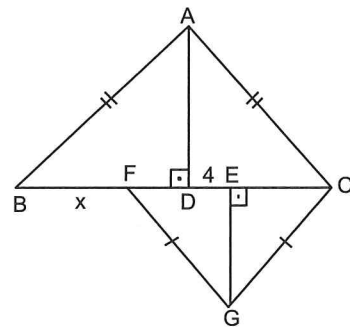
11.



$(\triangle ABC) \Rightarrow$
 $|AB| = x = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

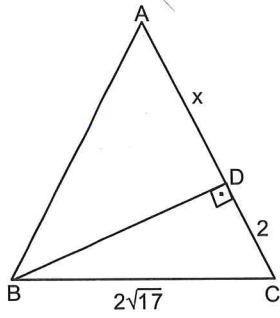
12.



$[AD] \perp [BC]$
 $[EG] \perp [BC]$
 $|DE| = 4 \text{ cm}$
 $|BF| = x = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

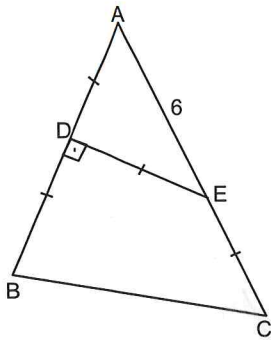
13.



$\triangle ABC \Rightarrow$
 $|AB| = |AC|$
 $|AD| = x = ? \text{ cm}$

- A) 8 B) 10 C) 12 D) 13 E) 15

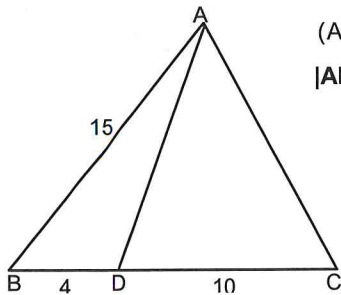
14.



$\triangle ABC \Rightarrow$
 $|BC| = ? \text{ cm}$

- A) $2\sqrt{14}$ B) $5\sqrt{2}$ C) $3\sqrt{6}$ D) $4\sqrt{3}$ E) $3\sqrt{5}$

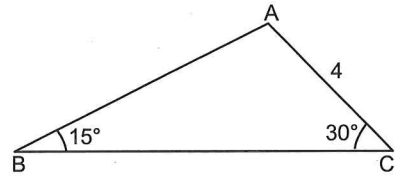
15.



$\triangle ABC \Rightarrow$
 $|AD| = |AC| = ? \text{ cm}$

- A) 10 B) 12 C) 13 D) $6\sqrt{5}$ E) $10\sqrt{2}$

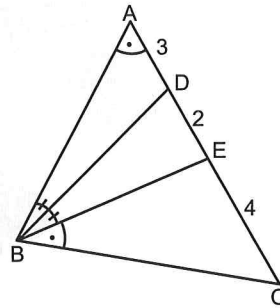
16.



$|BC| = ? \text{ cm}$

- A) $6\sqrt{3}$ B) $4 + 4\sqrt{3}$ C) $2\sqrt{3} + 4$
 D) $8 + 4\sqrt{3}$ E) $6 + 2\sqrt{3}$

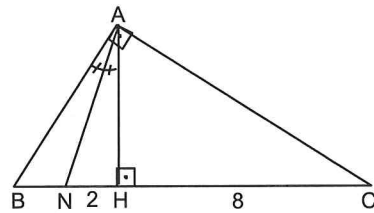
17.



$\triangle ABC \Rightarrow$
 $|BC| = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

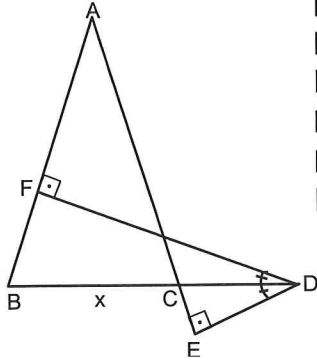
18.



$\triangle ABC \Rightarrow$
 $|AB| \perp |AC|$
 $|AH| = ? \text{ cm}$

- A) 6 B) $2\sqrt{10}$ C) $3\sqrt{5}$ D) $5\sqrt{2}$ E) 8

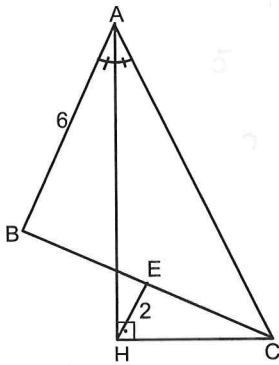
19.



- $|AB| = |AC| = 15 \text{ cm}$
- $|DF| = 12 \text{ cm}$
- $|DE| = 3 \text{ cm}$
- $[DF] \perp [AB]$
- $[DE] \perp [AE]$
- $|BC| = x = ? \text{ cm}$

- A) $2\sqrt{10}$ B) $3\sqrt{10}$ C) $2\sqrt{5}$ D) $3\sqrt{5}$ E) 7

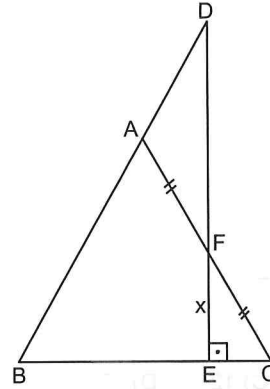
20.



- $(\triangle ABC) \Rightarrow$
- $[AH] \perp [HC]$
- $|BE| = |EC|$
- $|AC| = ? \text{ cm}$

- A) 10 B) 11 C) 12 D) 13 E) 14

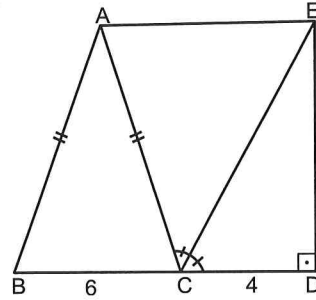
21.



- $(\triangle DBE), (\triangle AFC) \Rightarrow$
- $|AB| = |AC|$
- $|AF| = |FC|$
- $|DE| = 9 \text{ cm}$
- $|FE| = x = ? \text{ cm}$

- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

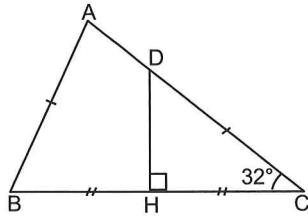
22.



- $[AE] \parallel [BD]$
- $|AB| = |AC|$
- $|ED| = ? \text{ cm}$

- A) $2\sqrt{10}$ B) $3\sqrt{5}$ C) $5\sqrt{2}$ D) $2\sqrt{14}$ E) $2\sqrt{15}$

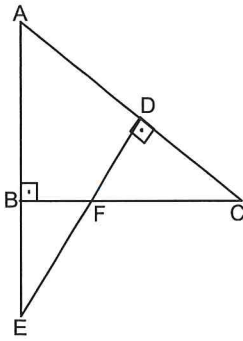
23.



$\triangle ABC \Rightarrow$
 $m(\hat{ABC}) = ?$

- A) 70 B) 75 C) 84 D) 86 E) 88

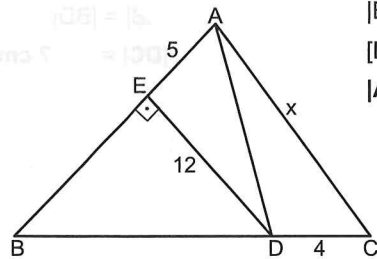
24.



$[AB] \perp [BC]$
 $[DE] \perp [AC]$
 $|FC| = 12 \text{ cm}$
 $|AB| = |BC| = 16 \text{ cm}$
 $|FE| = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $4\sqrt{2}$ C) 8 D) 6 E) $3\sqrt{2}$

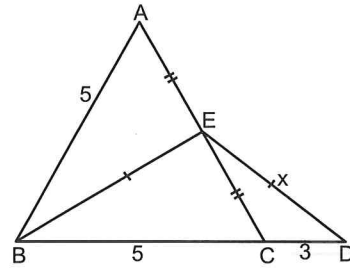
25.



$|BA| = |AC|$
 $[DE] \perp [AB]$
 $|AC| = x = ? \text{ cm}$

- A) 12 B) 14 C) 15 D) 18 E) 20

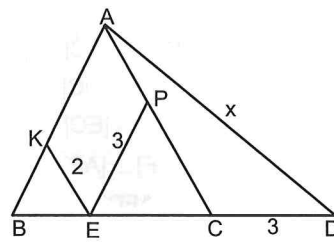
26.



$|AE| = |EC|$
 $|BE| = |ED|$
 $|BA| = |BC|$
 $|ED| = x = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) $2\sqrt{5}$ E) 5

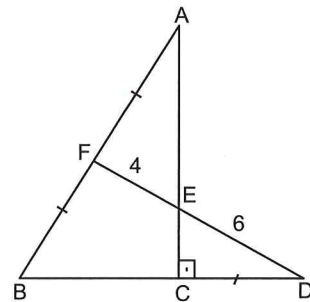
27.



$[EP] \parallel [AB]$
 $[KE] \parallel [AC]$
 $|AB| = |AC|$
 $|BC| = 6 \text{ cm}$
 $|AD| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) $2\sqrt{13}$ E) $2\sqrt{14}$

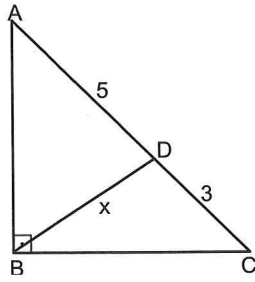
28.



$[AC] \perp [BD]$
 $|AF| = |BF| = |CD|$
 $|EF| = 4 \text{ cm}$
 $|ED| = 6 \text{ cm}$
 $|CD| = ? \text{ cm}$

- A) $4\sqrt{6}$ B) $\sqrt{30}$ C) $10\sqrt{5}$
D) $12\sqrt{3}$ E) $16\sqrt{2}$

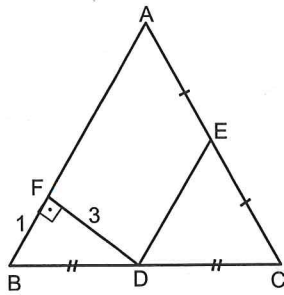
29.



$\triangle ABC \Rightarrow$
 $|AB| = |BC|$
 $[AB] \perp [BC]$
 $|BD| = x = ? \text{ cm}$

- A) 4 B) $\sqrt{17}$ C) $\sqrt{19}$ D) $2\sqrt{5}$ E) 5

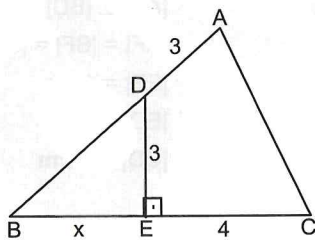
30.



$|AB| = |AC|$
 $|BD| = |DC|$
 $|AE| = |EC|$
 $[DF] \perp [AB]$
 $\text{Ç}(AFDE) = ? \text{ cm}$

- A) 18 B) 19 C) 20 D) 21 E) 22

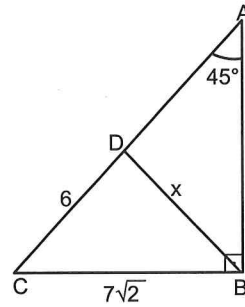
31.



$|AB| = |BC|$
 $[DE] \perp [BC]$
 $|BE| = x = ? \text{ cm}$

- A) 1 B) 2 C) 3 D) 4 E) 5

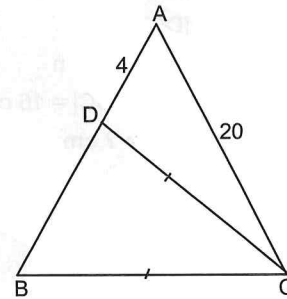
32.



$[AB] \perp [CB]$
 $|BD| = x = ? \text{ cm}$

- A) $5\sqrt{2}$ B) 7 C) $3\sqrt{5}$ D) $2\sqrt{10}$ E) 12

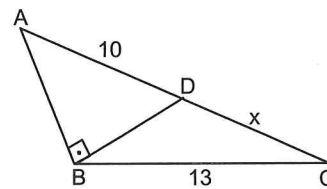
33.



$|AB| = |AC| = 20 \text{ cm}$
 $|AD| = 4 \text{ cm}$
 $|BC| = ? \text{ cm}$

- A) $12\sqrt{5}$ B) $10\sqrt{5}$ C) 16 D) $8\sqrt{5}$ E) 10

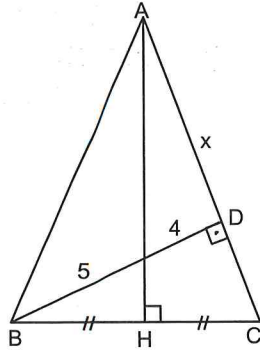
34.



$[AB] \perp [BD]$
 $|AB| = |BD|$
 $|DC| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

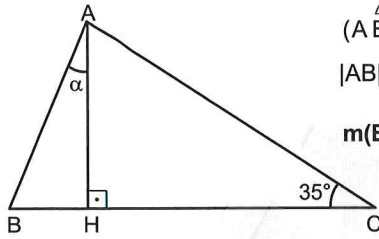
35.



$(\triangle ABC) \Rightarrow$
 $|AD| = x = ? \text{ cm}$

- A) 6 B) 8 C) 10 D) 12 E) 15

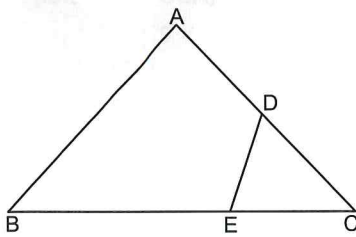
36.



$(\triangle ABC) \Rightarrow$
 $|AB| + |BH| = |HC|$
 $m(\widehat{BAH}) = \alpha = ?$

- A) 30 B) 25 C) 20 D) 15 E) 10

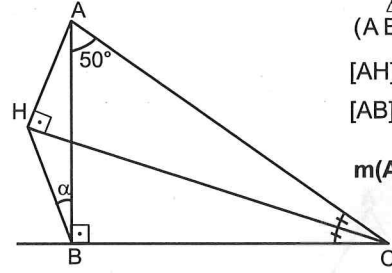
37.



$(\triangle ABC) \Rightarrow$
 $|AB| = |AC| = |BE|$
 $|AD| = |DE| = |EC|$
 $m(\widehat{BAC}) = ?$

- A) 90 B) 100 C) 105 D) 110 E) 120

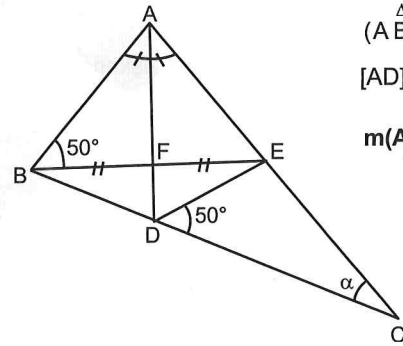
38.



$(\triangle ABC) \Rightarrow$
 $[AH] \perp [HC]$
 $[AB] \perp [BC]$
 $m(\widehat{ABH}) = \alpha = ?$

- A) 15 B) 20 C) 22 D) 25 E) 30

39.



$(\triangle ABC) \Rightarrow$
 $[AD] \cap [BE] = \{F\}$
 $m(\widehat{ACB}) = \alpha = ?$

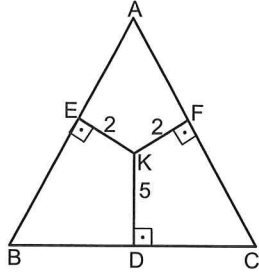
- A) 20 B) 25 C) 30 D) 35 E) 40

CEVAPLAR / ANSWERS

1-E	2-B	3-D	4-B	5-C	6-D
7-A	8-D	9-E	10-E	11-D	12-E
13-E	14-C	15-C	16-B	17-B	18-A
19-B	20-A	21-C	22-A	23-C	24-B
25-C	26-D	27-D	28-B	29-B	30-E
31-D	32-A	33-D	34-C	35-D	36-C
37-A	38-B	39-B			

ÜNİTE 1
UNIT 1
EŞKENAR ÜÇGEN
EQUILATERAL TRIANGLE
BÖLÜM 5
CHAPTER 5

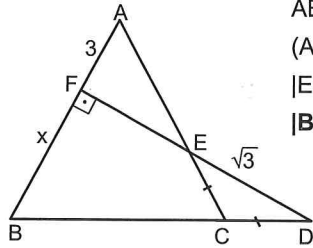
1.



ABC eşkenar üçgen
 (ABC equilateral)
 $A(ABC) = ? \text{ cm}^2$

- A) $36\sqrt{3}$ B) $32\sqrt{3}$ C) $30\sqrt{3}$
 (D) $27\sqrt{3}$ E) $18\sqrt{3}$

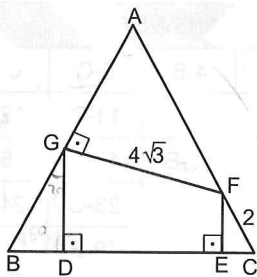
2.



ABC eşkenar üçgen
 (ABC equilateral)
 $|EC| = |CD|$
 $|BF| = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

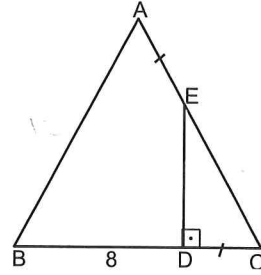
3.



ABC eşkenar üçgen
 (ABC equilateral)
 $|DE| = ? \text{ cm}$

- A) 4 B) $3\sqrt{2}$ C) 5 D) $3\sqrt{3}$ E) 6

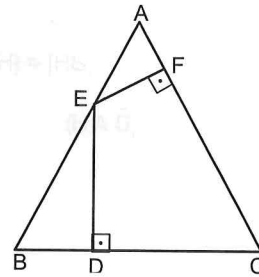
4.



ABC eşkenar üçgen
 (ABC equilateral)
 $|AE| = |DC|$
 $|AB| = ? \text{ cm}$

- A) 7 B) 8 C) 9 D) 10 E) 12

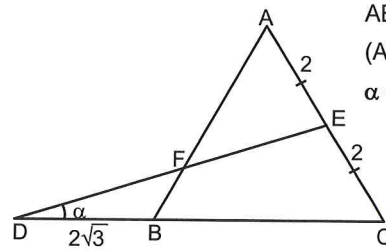
5.



ABC eşkenar üçgen
 (ABC equilateral)
 $|DE| = 4 \cdot |EF|$
 $\frac{|FC|}{|DC|} = ?$

- A) $\frac{4}{3}$ B) $\frac{5}{3}$ C) $\frac{3}{2}$ D) $\frac{6}{5}$ E) $\frac{7}{5}$

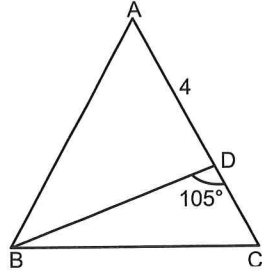
6.



ABC eşkenar üçgen
 (ABC equilateral)
 $\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 45

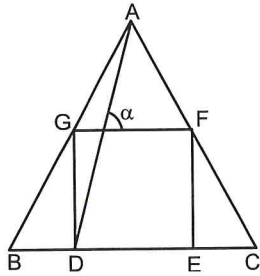
7.



ABC eşkenar üçgen
(ABC equilateral)
 $|BD| = ? \text{ cm}$

- A) 4 B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) $2\sqrt{7}$ E) $4\sqrt{6}$

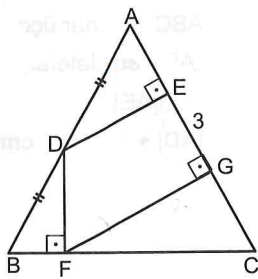
8.



ABC eşkenar üçgen
(ABC equilateral)
(DEFG) kare
(DEFG square)
 $\alpha = ?$

- A) 65 B) 70 C) 75 D) 80 E) 85

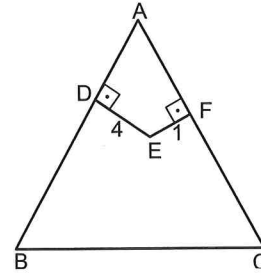
9.



ABC eşkenar üçgen
(ABC equilateral)
 $\text{Ç}(ABC) = ? \text{ cm}$

- A) 24 B) 27 C) 30 D) 33 E) 36

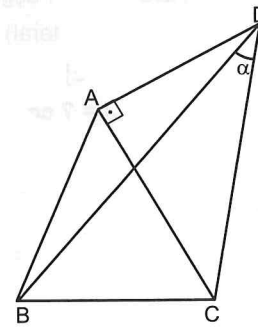
10.



ABC eşkenar üçgen
(ABC equilateral)
 $|AD| = ? \text{ cm}$

- A) $\sqrt{6}$ B) $\sqrt{7}$ C) $2\sqrt{2}$ D) $2\sqrt{3}$ E) $3\sqrt{2}$

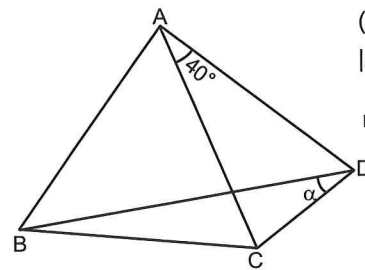
11.



ABC eşkenar üçgen
(ABC equilateral)
 $|AD| = |AC|$
 $m(\hat{BDC}) = \alpha = ?$

- A) 40 B) 30 C) 28 D) 25 E) 20

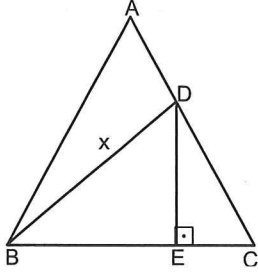
12.



ABC eşkenar üçgen
(ABC equilateral)
 $|AD| = |BC|$
 $m(\hat{BDC}) = \alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 40

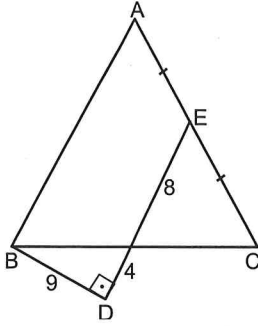
13.



ABC eşkenar üçgen
(ABC equilateral)
 $2|DA| = 3|EC| = 12$ cm
 $|BD| = x = ?$ cm

- A) $2\sqrt{37}$ B) $2\sqrt{35}$ C) $2\sqrt{34}$
D) $8\sqrt{2}$ E) $4\sqrt{7}$

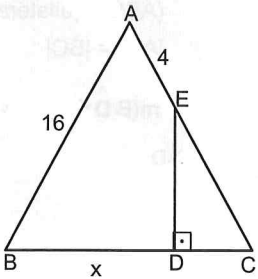
14.



ABC eşkenar üçgen
(ABC equilateral)
 $[BD] \perp [DE]$
 $\mathcal{C}(ABC) = ?$ cm

- A) $18\sqrt{3}$ B) $20\sqrt{3}$ C) $21\sqrt{3}$
D) $24\sqrt{3}$ E) $30\sqrt{3}$

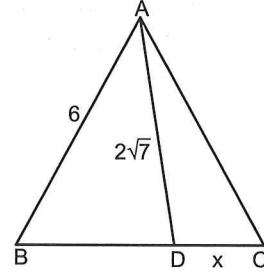
15.



ABC eşkenar üçgen
(ABC equilateral)
 $[ED] \perp [BC]$
 $|BD| = x = ?$ cm

- A) 9 B) 10 C) 11 D) 12 E) 13

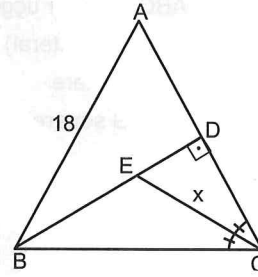
16.



ABC eşkenar üçgen
(ABC equilateral)
 $|DC| = x = ?$ cm

- A) 2 B) 3 C) $\sqrt{10}$ D) $2\sqrt{3}$ E) $3\sqrt{2}$

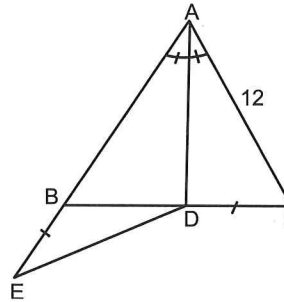
17.



ABC eşkenar üçgen
(ABC equilateral)
 $[BD] \perp [AC]$
 $|EC| = x = ?$ cm

- A) $6\sqrt{2}$ B) 9 C) $3\sqrt{10}$ D) $3\sqrt{11}$ E) $6\sqrt{3}$

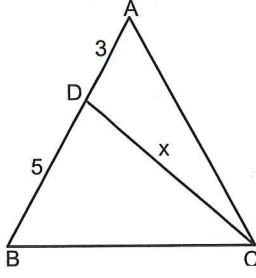
18.



ABC eşkenar üçgen
(ABC equilateral)
 $B \in [AE]$
 $|AD| + |DE| = ?$ cm

- A) $10\sqrt{3}$ B) $12\sqrt{3}$ C) $14\sqrt{3}$
D) $6\sqrt{3} + 12$ E) $6\sqrt{3} + 18$

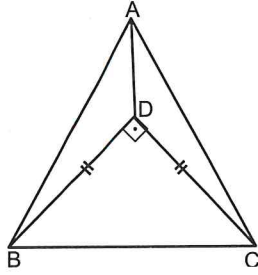
19.



ABC eşkenar üçgen
(ABC equilateral)
 $|DC| = x = ?$ cm

- A) $2\sqrt{7}$ B) 6 C) 7 D) 5 E) $2\sqrt{6}$

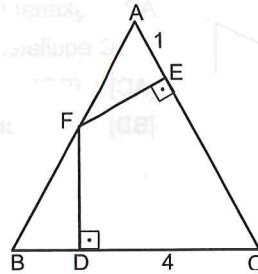
20.



ABC eşkenar üçgen
(ABC equilateral)
 $[BD] \perp [DC]$
 $|BD| = |DC| = 2\sqrt{2}$ cm
 $|AD| = ?$ cm

- A) $2\sqrt{3} - 2\sqrt{2}$ B) $4 - 2\sqrt{3}$ C) $2\sqrt{3} - 1$
D) $2\sqrt{3} - 2$ E) $4\sqrt{3} - 2$

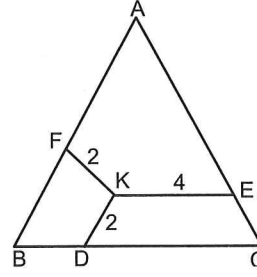
21.



ABC eşkenar üçgen
(ABC equilateral)
 $\text{Ç}(ABC) = ?$ cm

- A) 15 B) 18 C) 21 D) 24 E) 27

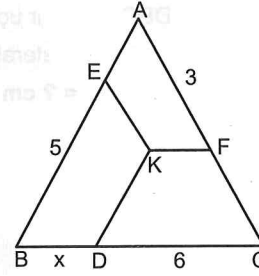
22.



ABC eşkenar üçgen
(ABC equilateral)
 $[KE] \parallel [BC]$
 $[KD] \parallel [AB]$
 $[FK] \parallel [AC]$
 $A(ABC) = ?$ cm²

- A) $10\sqrt{3}$ B) $12\sqrt{3}$ C) $16\sqrt{3}$
D) $20\sqrt{3}$ E) $24\sqrt{3}$

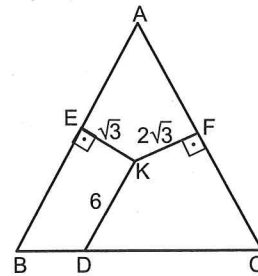
23.



ABC eşkenar üçgen
(ABC equilateral)
 $[KD] \parallel [AB]$
 $[KF] \parallel [BC]$
 $[EK] \parallel [AC]$
 $|BD| = x = ?$ cm

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

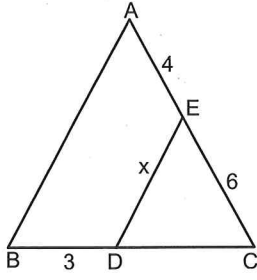
24.



ABC eşkenar üçgen
(ABC equilateral)
 $[KD] \parallel [AB]$
 $\text{Ç}(ABC) = ?$ cm

- A) 18 B) 24 C) 27 D) 30 E) 36

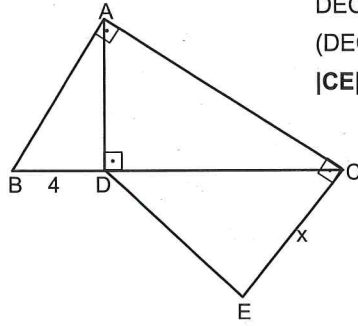
25.



ABC eşkenar üçgen
(ABC equilateral)
 $|ED| = x = ? \text{ cm}$

- A) 4 B) 5 C) $\sqrt{31}$ D) $\sqrt{43}$ E) $\sqrt{47}$

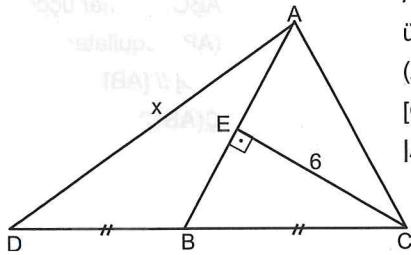
26.



DEC eşkenar üçgen
(DEC equilateral)
 $|CE| = x = ? \text{ cm}$

- A) $6\sqrt{2}$ B) 12 C) $8\sqrt{3}$ D) 18 E) $12\sqrt{3}$

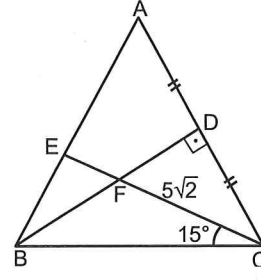
27.



ABC eşkenar üçgen
(ABC equilateral)
 $[CE] \perp [AB]$
 $|AD| = x = ? \text{ cm}$

- A) 8 B) 10 C) 12 D) 14 E) 16

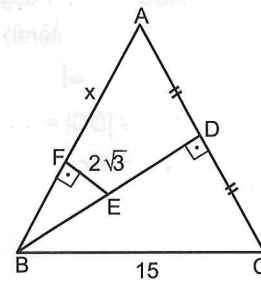
28.



ABC eşkenar üçgen
(ABC equilateral)
 $\angle(ABC) = ? \text{ cm}$

- A) 27 B) 30 C) 36 D) 42 E) 48

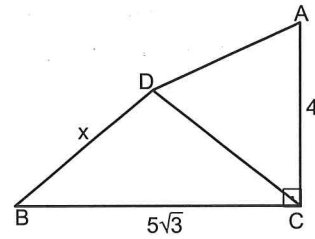
29.



ABC eşkenar üçgen
(ABC equilateral)
 $[EF] \perp [AB]$
 $|AF| = x = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

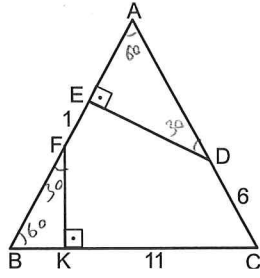
30.



ADC eşkenar üçgen
(ADC equilateral)
 $[AC] \perp [BC]$
 $|BD| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) $\sqrt{31}$ E) $2\sqrt{11}$

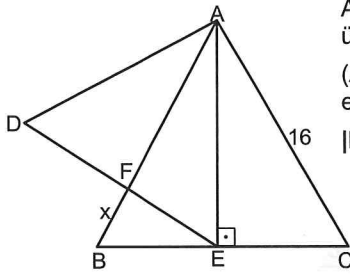
31.



ABC eşkenar üçgen
(ABC equilateral)
[DE] \perp [AB]
[FK] \perp [BC]
 $\widehat{C}(ABC) = ?$ cm

- A) 42 B) 45 C) 48 D) 51 E) 54

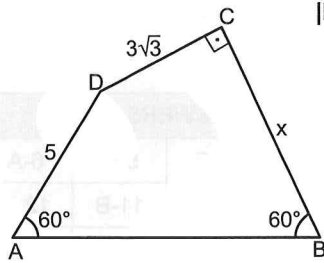
32.



ABC ve ADE eşkenar üçgen
(ABC and ADE equilateral triangles)
 $|FB| = x = ?$ cm

- A) 4 B) 5 C) $2\sqrt{3}$ D) $4\sqrt{3}$ E) $5\sqrt{3}$

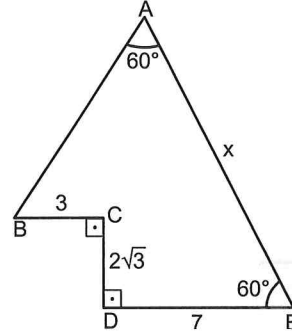
33.



$|BC| = x = ?$ cm

- A) 10 B) 9 C) 8 D) 7 E) 6

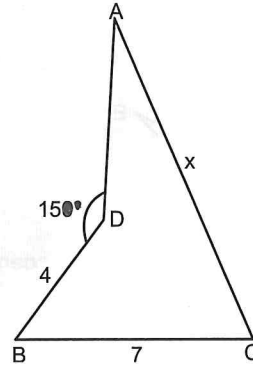
34.



[BC] \perp [CD]
[CD] \perp [DE]
 $|AE| = x = ?$ cm

- A) 14 B) 13 C) 12 D) 11 E) 10

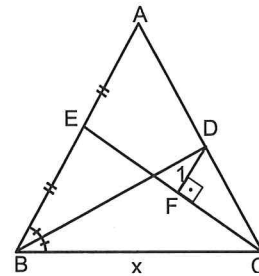
35.



$m(\widehat{DBC}) = m(\widehat{ACB}) = 60^\circ$
 $m(\widehat{ADB}) = 150^\circ$
 $|AC| = x = ?$ cm

- A) 7 B) 8 C) 9 D) 10 E) 11

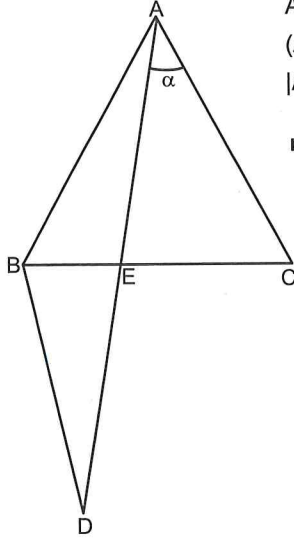
36.



ABC eşkenar üçgen
(ABC equilateral)
[DF] \perp [EC]
[DF] = 1 cm
 $|BC| = x = ?$ cm

- A) 3 B) $\sqrt{10}$ C) $2\sqrt{3}$ D) 4 E) 6

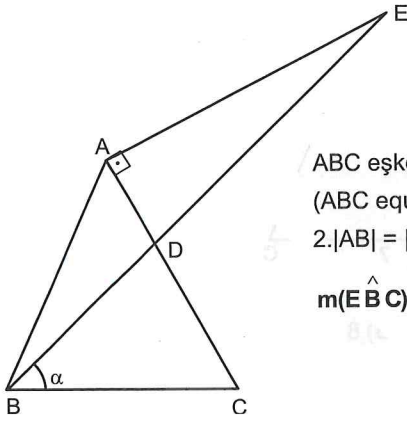
37.



ABC eşkenar üçgen
(ABC equilateral)
 $|AB| = |BD| = |DE|$
 $m(\hat{D A C}) = \alpha = ?$

- A) 35 B) 40 C) 42 D) 44 E) 45

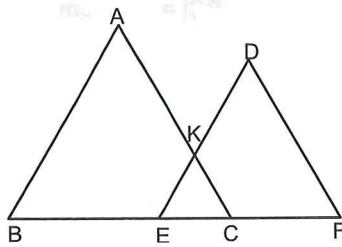
38.



ABC eşkenar üçgen
(ABC equilateral)
 $2 \cdot |AB| = |DE|$
 $m(\hat{E B C}) = \alpha = ?$

- A) 40 B) 36 C) 35 D) 34 E) 32

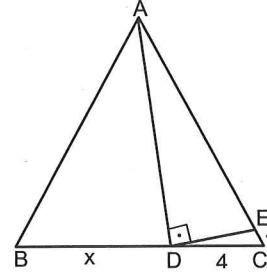
39.



(ABC), (DEF)
eşkenar üçgenler
(ABC), (DEF)
(equilateral triangles)
 $|AK| + |KD| = 10 \text{ cm}$
 $|BF| = 12 \text{ cm}$
 $A(\hat{K E C}) = ? \text{ cm}^2$

- A) $2\sqrt{3}$ B) $\sqrt{3}$ C) $3\sqrt{3}$ D) $\sqrt{6}$ E) $4\sqrt{3}$

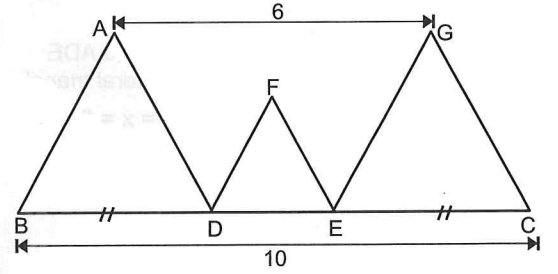
40.



ABC eşkenar üçgen
(ABC equilateral)
 $[AD] \perp [DE]$
 $|BD| = x = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

41.



(ABD), (DEF), (GEC) eşkenar üçgenler
(ABD, DEF and GEC are equilateral triangles)

$$A(\hat{D E F}) = ? \text{ cm}^2$$

- A) $\sqrt{3}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) $4\sqrt{3}$ E) $5\sqrt{3}$

CEVAPLAR / ANSWERS

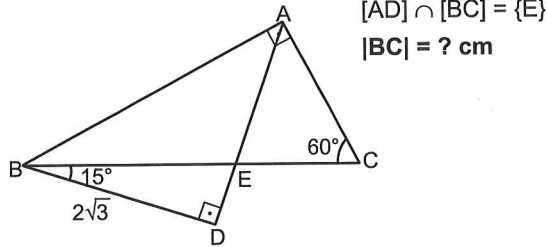
1-D	2-B	3-E	4-E	5-C	6-A
7-C	8-C	9-A	10-D	11-B	12-D
13-A	14-E	15-B	16-A	17-E	18-B
19-C	20-D	21-B	22-C	23-B	24-E
25-D	26-B	27-C	28-B	29-D	30-D
31-C	32-A	33-C	34-C	35-D	36-D
37-B	38-A	39-B	40-E	41-A	

ÜNİTE 1
UNIT 1

ÖZEL ÜÇGENLER
SPECIAL TRIANGLES

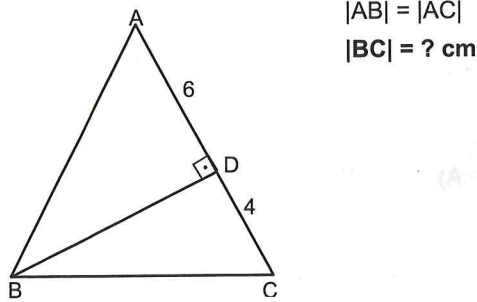
BÖLÜM 6
CHAPTER 6

1.



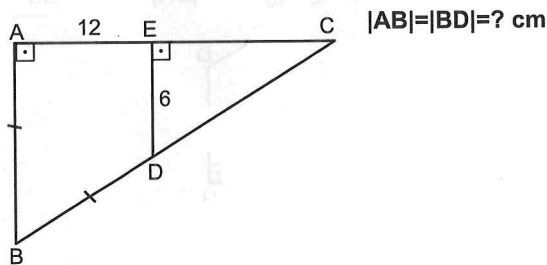
- A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) $5\sqrt{2}$ D) 10 E) 12

2.



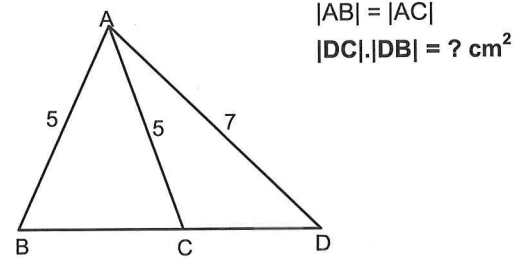
- A) $4\sqrt{5}$ B) $3\sqrt{6}$ C) $3\sqrt{5}$ D) 6 E) $2\sqrt{5}$

3.



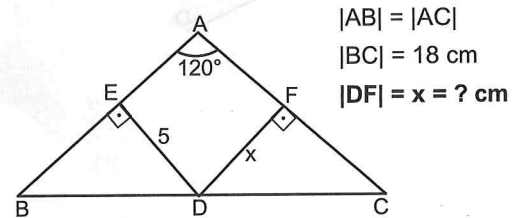
- A) 19 B) 18 C) 17 D) 16 E) 15

4.



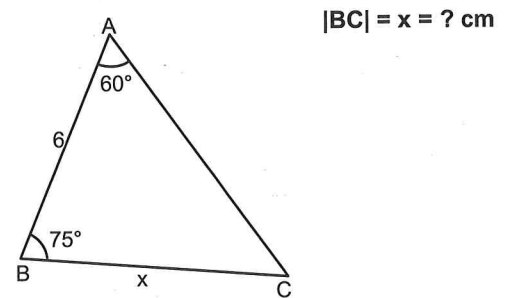
- A) 16 B) 18 C) 20 D) 24 E) 28

5.



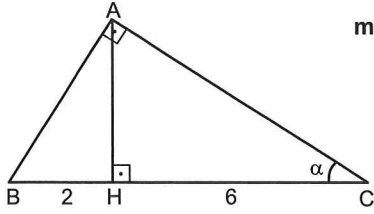
- A) 6 B) 5 C) 4 D) 3 E) 2

6.



- A) $3\sqrt{6}$ B) $5\sqrt{2}$ C) $3\sqrt{5}$ D) 6 E) 5

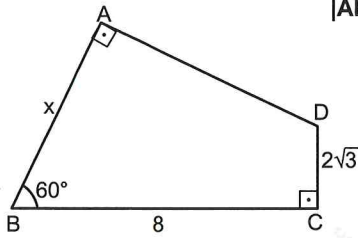
7.



$m(\hat{A}CB) = \alpha = ?$

- A) 30 B) 25 C) 22,5 D) 15 E) 10

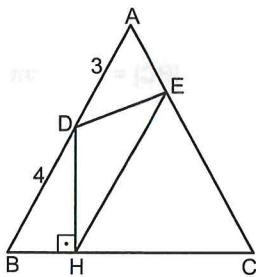
8.



$|AB| = x = ? \text{ cm}$

- A) 7 B) 6 C) $4\sqrt{2}$ D) $3\sqrt{3}$ E) $2\sqrt{6}$

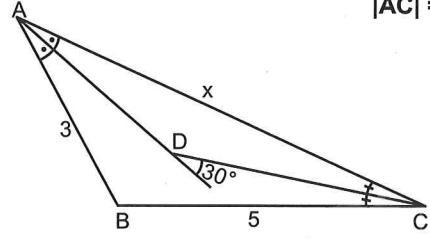
9.



ABC eşkenar üçgen
(ABC equilateral)
 $[AB] \parallel [HE]$
 $|DE| = ? \text{ cm}$

- A) $\sqrt{5}$ B) $\sqrt{6}$ C) $\sqrt{7}$ D) $2\sqrt{2}$ E) 3

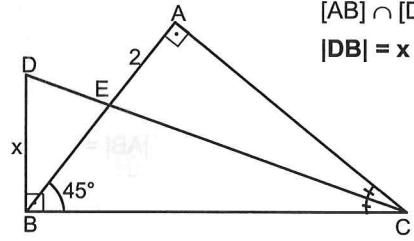
10.



$|AC| = x = ? \text{ cm}$

- A) 7 B) $3\sqrt{5}$ C) 6 D) $4\sqrt{2}$ E) $2\sqrt{7}$

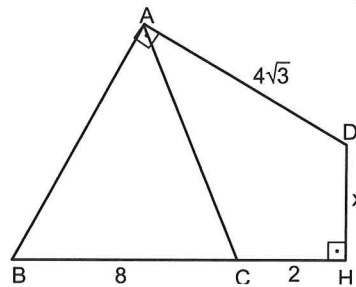
11.



$[AB] \cap [DC] = \{E\}$
 $|DB| = x = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) $3\sqrt{2}$

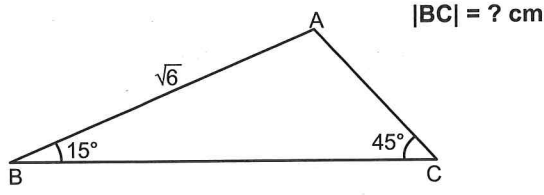
12.



ABC eşkenar üçgen
(ABC equilateral)
 $|DH| = x = ? \text{ cm}$

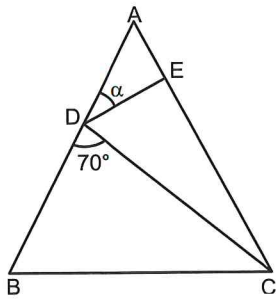
- A) $3\sqrt{3}$ B) $2\sqrt{3}$ C) $\sqrt{10}$ D) 3 E) $2\sqrt{2}$

13.



- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{2}$ D) $4\sqrt{3}$ E) 3

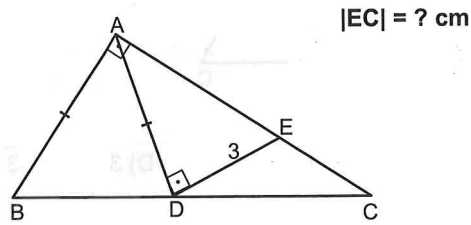
14.



ABC eşkenar üçgen
(ABC equilateral)
 $|CD| = |CE|$
 $m(\hat{ADE}) = \alpha = ?$

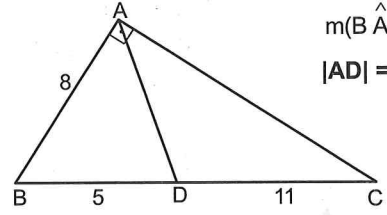
- A) 20 B) 25 C) 30 D) 35 E) 40

15.



- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

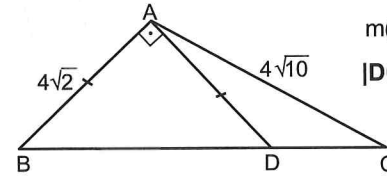
16.



$m(\hat{BAC}) = 90^\circ$
 $|AD| = ? \text{ cm}$

- A) 6 B) 7 C) 7,5 D) 8 E) 8,5

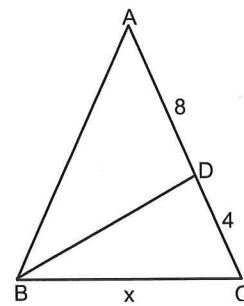
17.



$m(\hat{BAD}) = 90^\circ$
 $|DC| = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

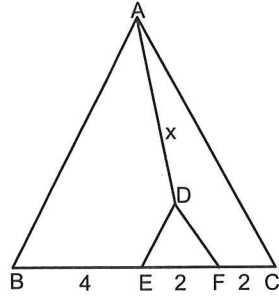
18.



$|AB| = |AC|$
 $|BD| = |BC|$
 $|BC| = x = ? \text{ cm}$

- A) 8 B) $6\sqrt{2}$ C) $5\sqrt{3}$ D) $4\sqrt{3}$ E) $3\sqrt{5}$

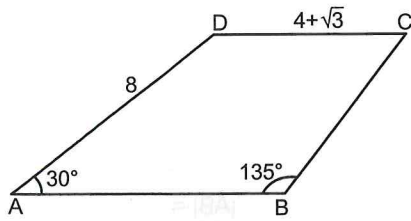
19.



ABC eşkenar üçgen
(ABC equilateral)
[AB] // [DE]
[AC] // [DF]
|AD| = x = ? cm

- A) $2\sqrt{7}$ B) $4\sqrt{2}$ C) 6 D) $2\sqrt{10}$ E) $2\sqrt{11}$

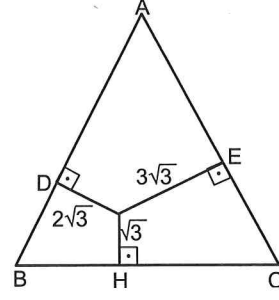
20.



[AD] // [BC]
|AD| = ? cm

- A) $7\sqrt{3}$ B) $6\sqrt{3}$ C) 10 D) 9 E) $5\sqrt{3}$

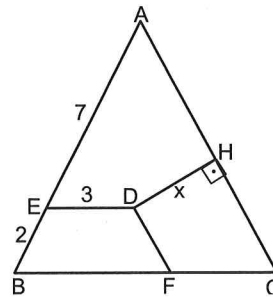
21.



ABC eşkenar üçgen
(ABC equilateral)
|HC| - |BH| = ? cm

- A) 3 B) 2,5 C) 2 D) 1,5 E) 1

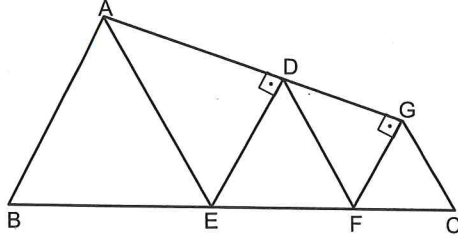
22.



ABC eşkenar üçgen
(ABC equilateral)
[ED] // [BC]
[DF] // [AC]
|DH| = x = ? cm

- A) $3\sqrt{3}$ B) 4 C) $2\sqrt{3}$ D) 3 E) $\sqrt{3}$

23.



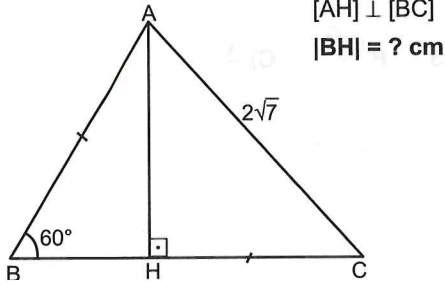
($\triangle ABE$), ($\triangle DEF$) ve ($\triangle GFC$) eşkenar üçgen

(ABE, DEF, GFC equilateral triangles)

$|BC| = 14 \text{ cm} \Rightarrow |AG| = ? \text{ cm}$

- A) 12 B) 10 C) $8\sqrt{3}$ D) $6\sqrt{3}$ E) $4\sqrt{3}$

24.

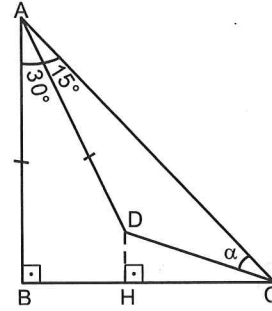


$[AH] \perp [BC]$

$|BH| = ? \text{ cm}$

- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

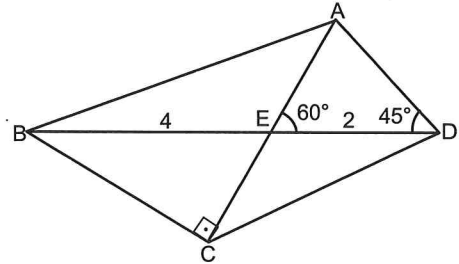
25.



$m(\hat{DCA}) = \alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

26.

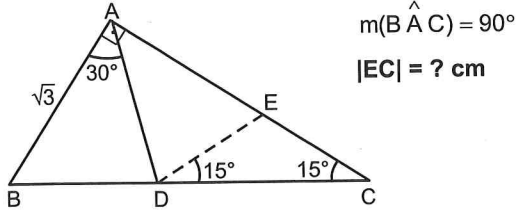


$[AC] \cap [BD] = \{E\}$

$|AB| = ? \text{ cm}$

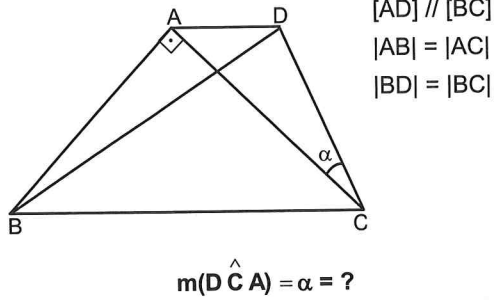
- A) $2\sqrt{6}$ B) $6\sqrt{2}$ C) $3\sqrt{6}$ D) 6 E) 5

27.



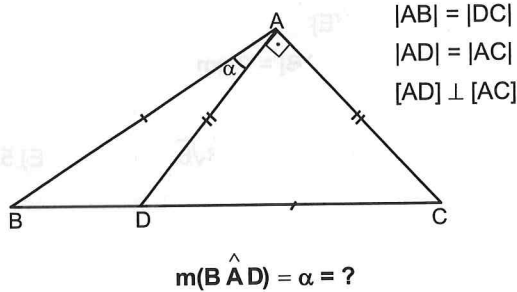
- A) 3 B) 4 C) 5 D) 6 E) 7

28.



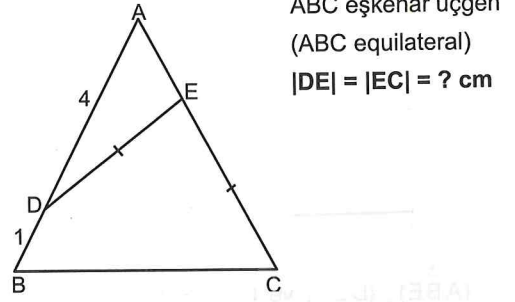
- A) 15 B) 20 C) 25 D) 30 E) 35

29.



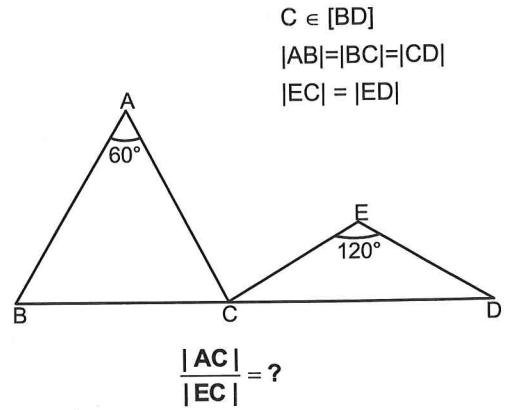
- A) 10 B) 15 C) 18 D) 20 E) 30

30.



- A) 3 B) 3,5 C) 3,6 D) 3,8 E) 4

31.



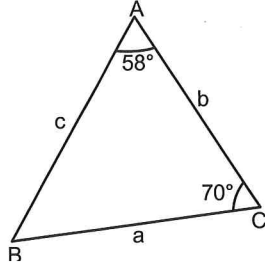
- A) $\sqrt{3}$ B) $\frac{\sqrt{3}}{2}$ C) $\frac{\sqrt{3}}{3}$ D) 2 E) 1

CEVAPLAR / ANSWERS

1-B	2-A	3-E	4-D	5-C	6-A
7-A	8-A	9-C	10-A	11-A	12-B
13-E	14-B	15-C	16-B	17-E	18-D
19-A	20-E	21-C	22-C	23-D	24-C
25-D	26-A	27-A	28-D	29-B	30-B
31-A					

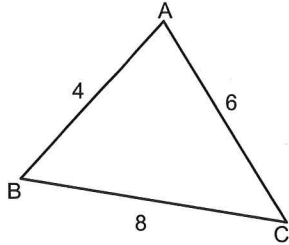
ÜNİTE 1
UNIT 1
AÇI KENAR BAĞINTILARI
RELATIONSHIPS IN TRIANGLE
BÖLÜM 7
CHAPTER 7

1.


 a, b, c
 $? > ? > ?$

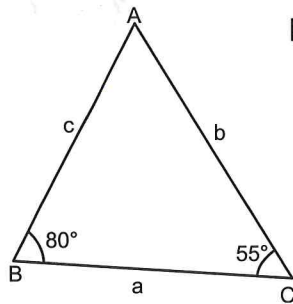
- A) $a > b > c$ B) $a > c > b$ C) $c > a > b$
 D) $b > c > a$ E) $b > a > c$

2.


 $\hat{A}, \hat{B}, \hat{C}$
 $? > ? > ?$

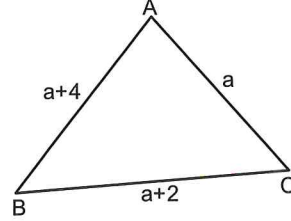
- A) $\hat{A} > \hat{B} > \hat{C}$ B) $\hat{B} > \hat{C} > \hat{A}$
 C) $\hat{A} > \hat{C} > \hat{B}$ D) $\hat{C} > \hat{B} > \hat{A}$
 E) $\hat{C} > \hat{A} > \hat{B}$

3.


 $|a-c| + |c-b| - |b-a| = ?$

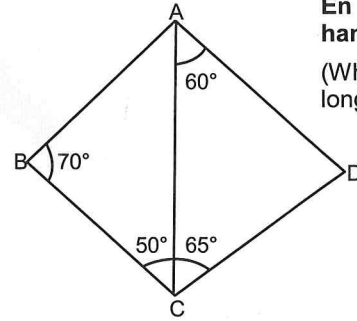
- A) $2b$ B) $2a - 2b$ C) $b - c$
 D) $2a - b$ E) 0

4.


 $\hat{A}, \hat{B}, \hat{C}$
 $? > ? > ?$

- A) $\hat{C} > \hat{A} > \hat{B}$ B) $\hat{B} > \hat{A} > \hat{C}$
 C) $\hat{A} > \hat{B} > \hat{C}$ D) $\hat{B} > \hat{C} > \hat{A}$
 E) $\hat{A} > \hat{C} > \hat{B}$

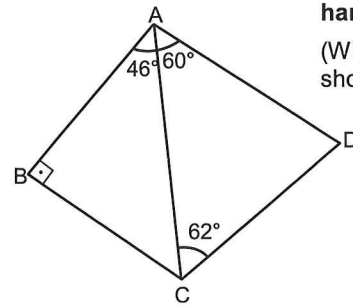
5.


En uzun kenar hangisidir?

(Which side is the longest?)

- A) $|BC|$ B) $|AD|$ C) $|AC|$ D) $|AB|$ E) $|CD|$

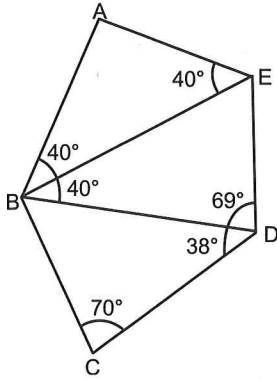
6.


En kısa kenar hangisidir?

(Which side is the shortest?)

- A) $|BC|$ B) $|AC|$ C) $|AB|$ D) $|AD|$ E) $|CD|$

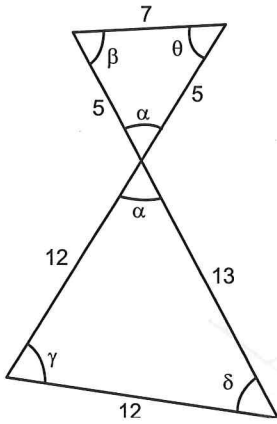
7.



En uzun kenar hangisidir?
(Which side is the longest?)

- A) |AB| B) |BC| C) |CD| D) |DE| E) |BE|

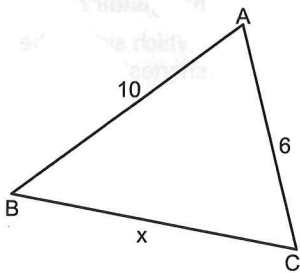
8.



En büyük açı?
(The max angle?)

- A) α B) β C) θ D) γ E) δ

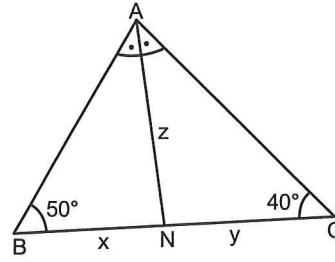
9.



$x \in Z$
 $\Sigma x = ?$

- A) 77 B) 88 C) 99 D) 101 E) 110

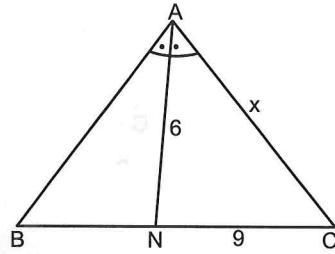
10.



$\triangle ABC \Rightarrow$
 x, y, z
 $? > ? > ?$

- A) $x > y > z$ B) $y > z > x$ C) $z > x > y$
D) $z > y > x$ E) $x > z > y$

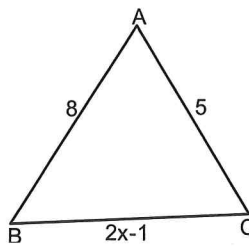
11.



$\triangle ABC \Rightarrow$
 $x \in Z$
 $\Sigma x = ?$

- A) 60 B) 69 C) 77 D) 84 E) 90

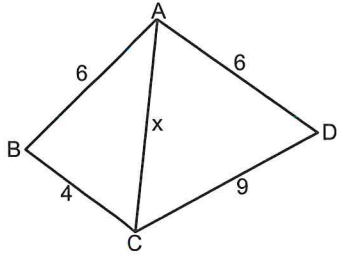
12.



$? < x < ?$

- A) $3 < x < 8$ B) $2 < x < 7$ C) $2 < x < 14$
D) $4 < x < 14$ E) $3 < x < 7$

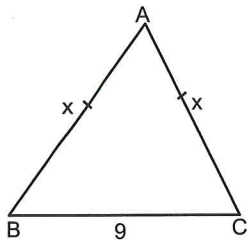
13.



$$\begin{aligned} a, b \in \mathbb{Z} \\ a < x < b \\ a + b = ? \end{aligned}$$

- A) 9 B) 10 C) 11 D) 12 E) 13

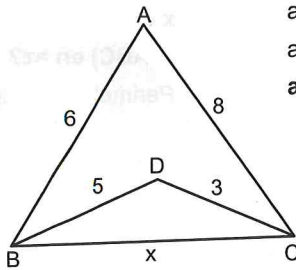
14.



$$\begin{aligned} x \in \mathbb{Z} \\ x_{\min} = ? \end{aligned}$$

- A) 4 B) 5 C) 6 D) 7 E) 8

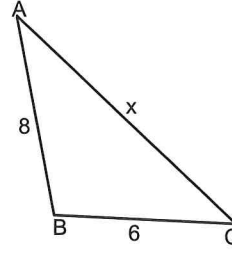
15.



$$\begin{aligned} a, b \in \mathbb{Z} \\ a < x < b \\ a + b = ? \end{aligned}$$

- A) 10 B) 11 C) 12 D) 13 E) 14

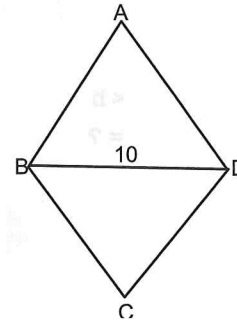
16.



$$\begin{aligned} m(\hat{A}BC) > 90^\circ \\ x \in \mathbb{Z} \\ \Sigma x = ? \end{aligned}$$

- A) 24 B) 30 C) 33 D) 36 E) 42

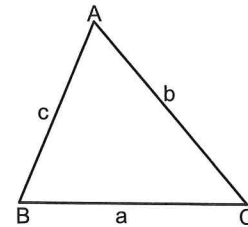
17.



$$\begin{aligned} \text{Ç}(ABCD) \text{ bir tam sayı} \\ (\text{Perimeter } (ABCD) \in \mathbb{Z}) \\ \text{Ç}(ABCD) \text{ en az kaçtır?} \\ (\text{Perimeter } (ABCD)_{\min} = ?) \end{aligned}$$

- A) 21 B) 22 C) 23 D) 24 E) 25

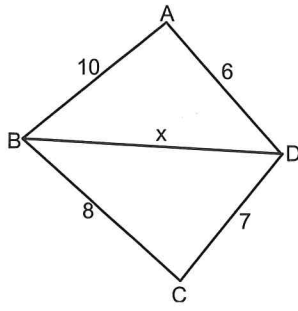
18.



$$\begin{aligned} a, b, c \in \mathbb{Z} \\ a \neq b \neq c \\ (a+b+c)_{\min} = ? \end{aligned}$$

- A) 6 B) 7 C) 9 D) 10 E) 11

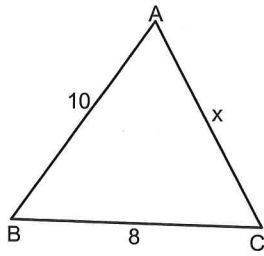
19.



$x \in \mathbb{Z}$
 $\Sigma x = ?$

- A) 95 B) 100 C) 108 D) 112 E) 123

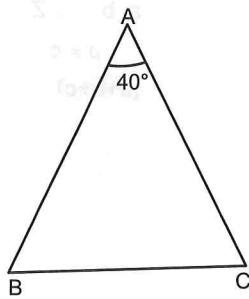
20.



$\hat{B} < \hat{A}$
 $a, b \in \mathbb{Z}$
 $a < x < b$
 $a + b = ?$

- A) 10 B) 12 C) 18 D) 20 E) 26

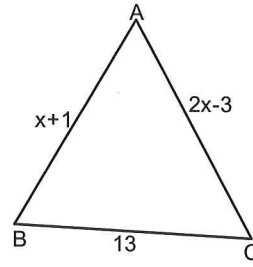
21.



$|AC| > |AB|$
 $m(\hat{A}BC) \in \mathbb{Z}$
 $m(\hat{A}CB)_{\max} = ?$

- A) 71 B) 70 C) 69 D) 68 E) 55

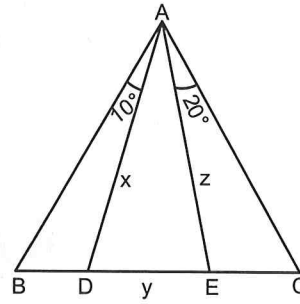
22.



$|AB| < |AC|$
 $a, b \in \mathbb{Z}$
 $a < x < b$
 $b - a = ?$

- A) 17 B) 15 C) 13 D) 12 E) 10

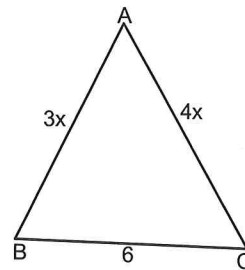
23.



$\hat{A}(\hat{A}BC)$ eşkenar
 (Equilateral)
 $m(\hat{B}AD) = 10^\circ$
 $m(\hat{E}AC) = 20^\circ$
 $x, y, z \Rightarrow ? < ? < ?$

- A) $y < x < z$ B) $x < z < y$ C) $z < x < y$
 D) $x < y < z$ E) $y < z < x$

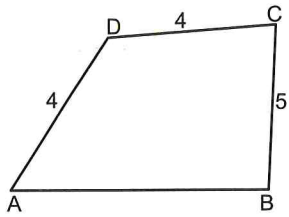
24.



$x \in \mathbb{Z}$
 $\mathcal{C}(ABC)$ en az?
 $\text{Perimeter}(ABC)_{\min} = ?$

- A) 11 B) 13 C) 14 D) 15 E) 17

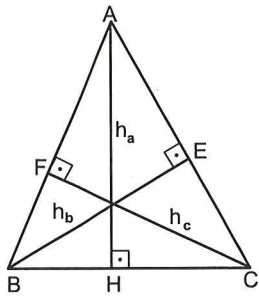
25.



$|AB| \in Z$
 $|AB|_{\max} = ?$

- A) 8 B) 9 C) 10 D) 11 E) 12

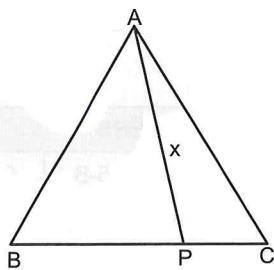
26.



$|AB| = 7 \text{ cm}$
 $|BC| = 6 \text{ cm}$
 $|AC| = 8 \text{ cm}$
 h_a, h_b, h_c
 $? < ? < ?$

- A) $h_a < h_b < h_c$ B) $h_b < h_a < h_c$ C) $h_c < h_b < h_a$
 D) $h_b < h_c < h_a$ E) $h_a < h_c < h_b$

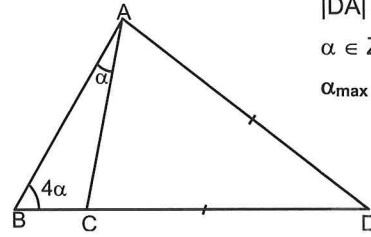
27.



$|AB| = |AC| = 10 \text{ cm}$
 $|BC| = 12 \text{ cm}$
 $P \in [BC]$
 $x \in Z$
 $\sum x = ?$

- A) 27 B) 30 C) 33 D) 36 E) 40

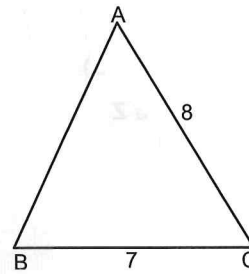
28.



$|DA| = |DC|$
 $\alpha \in Z$
 $\alpha_{\max} = ?$

- A) 20 B) 19 C) 18 D) 17 E) 16

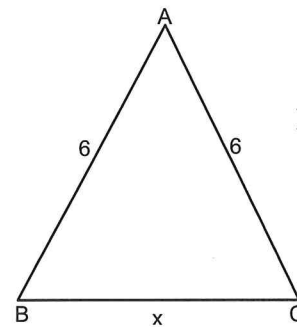
29.



$h_c < h_b < h_a \Rightarrow$
 $|AB| \in Z$
 $|AB|_{\min} = ?$

- A) 8 B) 9 C) 10 D) 11 E) 12

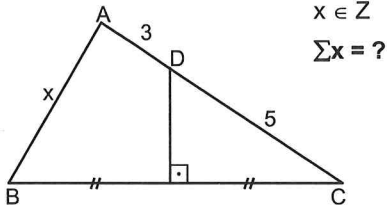
30.



$m(\hat{A}) < 60^\circ$
 $|BC| = x, x \in Z$
 $\sum x = ?$

- A) 13 B) 14 C) 15 D) 18 E) 21

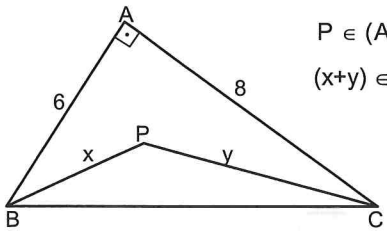
31.



$x \in Z$
 $\Sigma x = ?$

- A) 22 B) 25 C) 27 D) 28 E) 30

32.

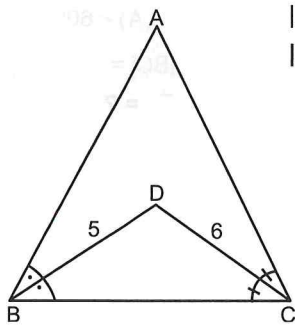


$P \in (\triangle ABC)$
 $(x+y) \in Z$

$(x+y)_{\max} + (x+y)_{\min} = ? \text{ cm}$

- A) 21 B) 23 C) 24 D) 26 E) 28

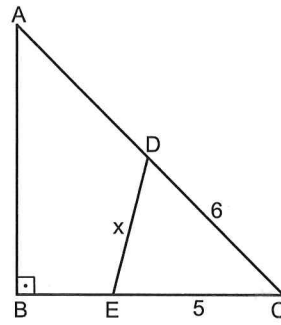
33.



$|BC| \in Z$
 $|BC|_{\min} = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

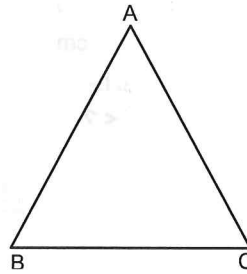
34.



$x \in Z$
 $x_{\max} = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

35.



$|AB| = |AC|$
 $\text{Ç}(\triangle ABC) = 25 \text{ cm}$
 $|BC| \in Z$
 $|BC|_{\max} = ? \text{ cm}$

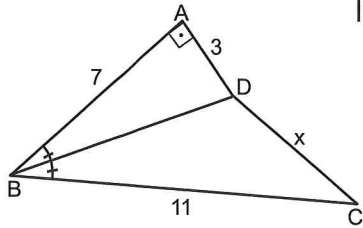
- A) 12 B) 13 C) 11 D) 10 E) 9

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1-C	2-A	3-E	4-A	5-B	6-C
7-C	8-D	9-E	10-B	11-A	12-B
13-E	14-B	15-A	16-D	17-A	18-C
19-A	20-A	21-C	22-D	23-E	24-B
25-E	26-D	27-A	28-D	29-B	30-C
31-B	32-C	33-D	34-E	35-A	

ÜNİTE 1 UNIT 1	ÜÇGENDE AÇIORTAY THE BISECTOR OF A TRIANGLE	BÖLÜM 8 CHAPTER 8
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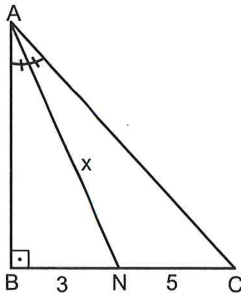
1.



$|DC| = x = ? \text{ cm}$

- A) 4 B) $3\sqrt{2}$ C) 5 D) 5,5 E) 6

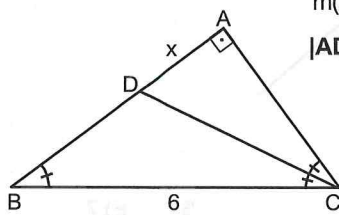
2.



$(\triangle ABC) \Rightarrow$
 $|AN| = x = ? \text{ cm}$

- A) 5 B) 6 C) $2\sqrt{7}$ D) $3\sqrt{5}$ E) 8

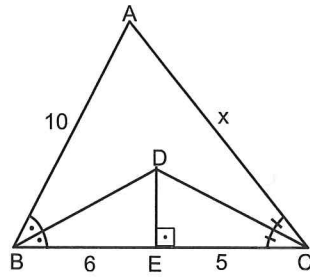
3.



$m(\hat{ACB}) = 2 \cdot m(\hat{ABC})$
 $|AD| = x = ?$

- A) 1 B) 2 C) 3 D) $\sqrt{3}$ E) $2\sqrt{3}$

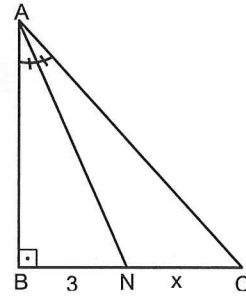
4.



$(\triangle ABC) \Rightarrow$
 $|AC| = x = ? \text{ cm}$

- A) 8 B) 9 C) 10 D) 11 E) 12

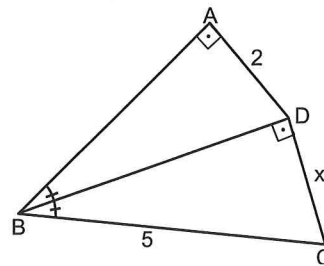
5.



$|AC| = |AB| + 4$
 $|BN| = 3 \text{ cm}$
 $|NC| = x = ? \text{ cm}$

- A) 5 B) 4 C) $4\sqrt{2}$ D) $3\sqrt{2}$ E) $2\sqrt{2}$

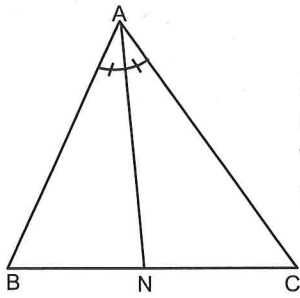
6.



$|DC| = x = ? \text{ cm}$

- A) 2 B) 3 C) $2\sqrt{2}$ D) $2\sqrt{5}$ E) $\sqrt{5}$

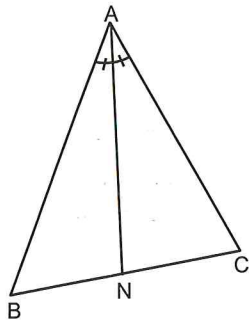
7.



$\frac{|BN|}{|NC|} = \frac{2}{3}$
 $|AB| = 6 \text{ cm}$
 $\text{Ç}(ABC) = 25 \text{ cm}$
 The primeter (ABC)=25
 $|BN| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

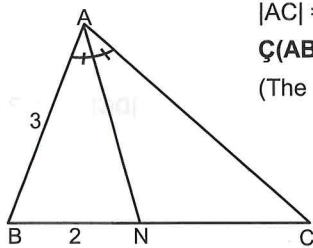
8.



$3|BN| = 4|NC|$
 $|AB| + |AC| = 28 \text{ cm}$
 $|AB| - |AC| = ? \text{ cm}$

- A) 8 B) 7 C) 6 D) 5 E) 4

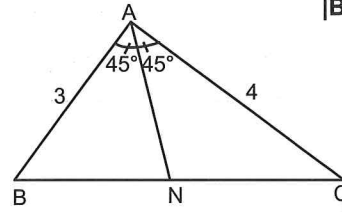
9.



$|AC| = |BC|$
 $\text{Ç}(ABC) = ? \text{ cm}$
 (The primeter (ABC)=?)

- A) 15 B) 18 C) 20 D) 21 E) 25

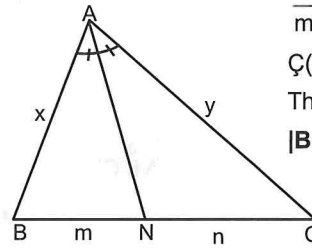
10.



$|BN| = ? \text{ cm}$

- A) $\frac{15}{7}$ B) $\frac{15}{4}$ C) 2 D) $\frac{3}{2}$ E) $\frac{5}{2}$

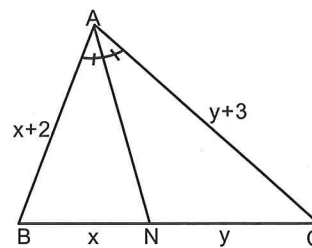
11.



$\frac{x \cdot y}{m \cdot n} = 4$
 $\text{Ç}(ABC) = 18 \text{ cm}$
 The primeter (ABC)=18 cm
 $|BC| = ? \text{ cm}$

- A) 6 B) 6,5 C) 7 D) 7,5 E) 8

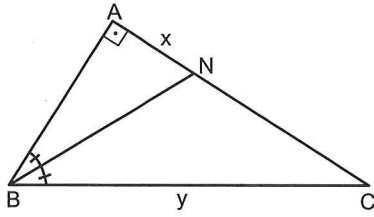
12.



$|BC| = 10 \text{ cm}$
 $|NC| = y = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

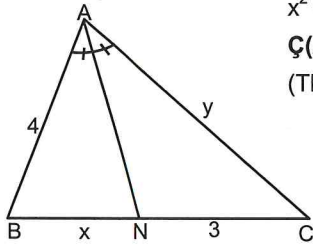
13.



$\triangle ABC \Rightarrow$
 $5 \cdot |AN| = 4 \cdot |NC|$
 $x \cdot y = 60$
 $|BC| = ? \text{ cm}$

- A) 10 B) 12 C) 15 D) 18 E) 20

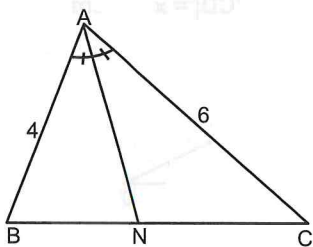
14.



$x^2 + y^2 = 40$
 $\angle(ABC) = ? \text{ cm}$
 (The primeter (ABC)=?)

- A) 21 B) 20 C) 18 D) 16 E) 15

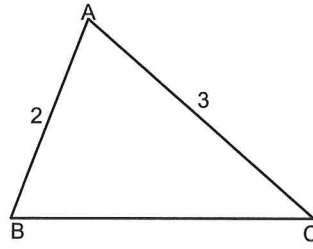
15.



$|AB| = 4 \text{ cm}$
 $|AC| = 6 \text{ cm}$
 $|BC| = 5 \text{ cm}$
 $|AN| = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $2\sqrt{6}$ D) $3\sqrt{2}$ E) $3\sqrt{3}$

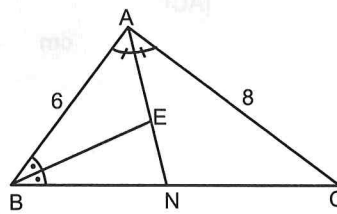
16.



$m(\hat{A}) = 2m(\hat{C})$
 $|BC| = ? \text{ cm}$

- A) $\sqrt{10}$ B) $2\sqrt{3}$ C) $3\sqrt{2}$ D) $\sqrt{5}$ E) $\sqrt{7}$

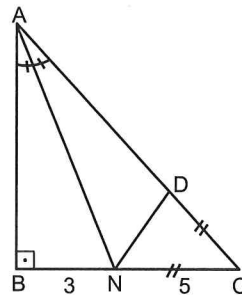
17.



$|AB| = 6 \text{ cm}$
 $|AC| = 8 \text{ cm}$
 $|BC| = 7 \text{ cm}$
 $|BE| = ? \text{ cm}$

- A) 3 B) $\sqrt{10}$ C) $2\sqrt{3}$ D) $\sqrt{15}$ E) $2\sqrt{5}$

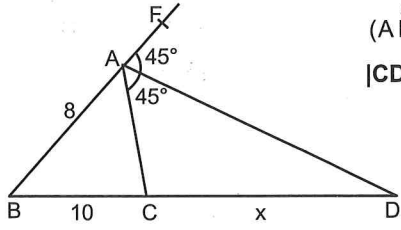
18.



$\triangle ABC \Rightarrow$
 $|DN| = ? \text{ cm}$

- A) $\sqrt{5}$ B) $2\sqrt{2}$ C) $\sqrt{10}$ D) $2\sqrt{3}$ E) $\sqrt{15}$

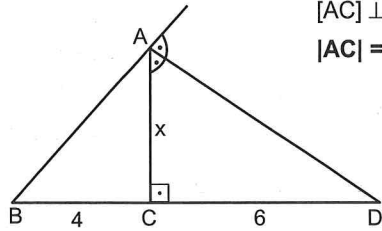
19.



$\triangle (ABD) \Rightarrow$
 $|CD| = x = ? \text{ cm}$

- A) 20 B) 25 C) 30 D) 35 E) 40

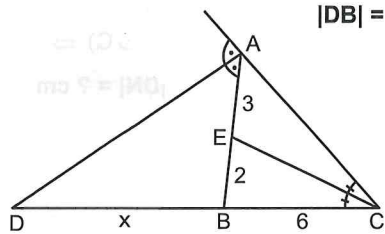
20.



$[AC] \perp [BD]$
 $|AC| = x = ? \text{ cm}$

- A) $2\sqrt{5}$ B) 3 C) $2\sqrt{3}$ D) 4 E) $\sqrt{6}$

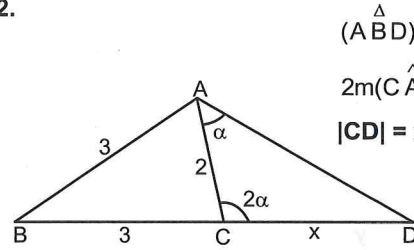
21.



$|DB| = x = ?$

- A) 5 B) 6 C) $\frac{13}{2}$ D) 7 E) $\frac{15}{2}$

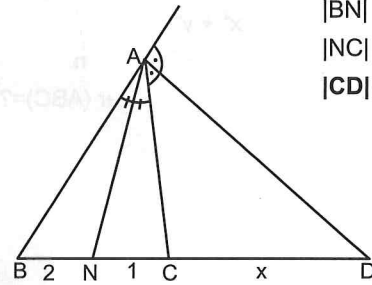
22.



$\triangle (ABD) \Rightarrow$
 $2m(\hat{C}AD) = m(\hat{A}CD)$
 $|CD| = x = ? \text{ cm}$

- A) 6 B) 5 C) 4 D) 3 E) 2

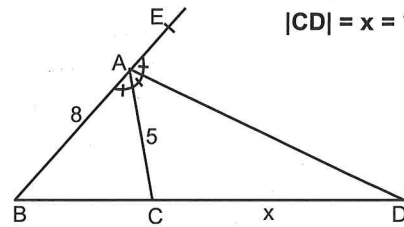
23.



$|BN| = 2 \text{ cm}$
 $|NC| = 1 \text{ cm}$
 $|CD| = x = ? \text{ cm}$

- A) 3 B) 3,5 C) 4 D) 4,5 E) 5

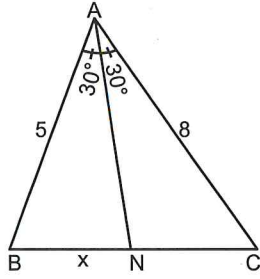
24.



$A \in [BE] \Rightarrow$
 $|CD| = x = ? \text{ cm}$

- A) 11 B) $\frac{35}{3}$ C) $\frac{35}{4}$ D) $\frac{37}{3}$ E) 12

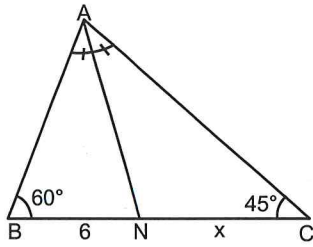
25.



$\triangle ABC \Rightarrow$
 $|BN| = x = ? \text{ cm}$

- A) $\frac{35}{7}$ B) $\frac{35}{13}$ C) 7 D) 4 E) 3

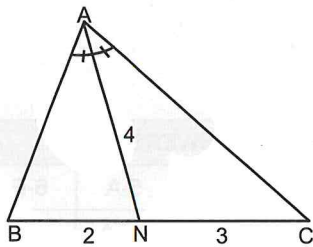
26.



$\triangle ABC \Rightarrow$
 $|NC| = x = ? \text{ cm}$

- A) $3\sqrt{5}$ B) $4\sqrt{3}$ C) $2\sqrt{6}$ D) $3\sqrt{6}$ E) $4\sqrt{2}$

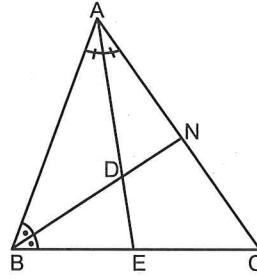
27.



$\triangle ABC \Rightarrow$
 $|AB| \cdot |AC| = ? \text{ cm}^2$

- A) 18 B) 20 C) 21 D) 22 E) 24

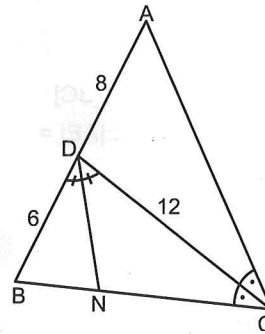
28.



$[AE] \cap [BN] = \{D\}$
 $|AB| = 9 \text{ cm}$
 $|AC| = 10 \text{ cm}$
 $|BC| = 11 \text{ cm}$
 $\frac{|BD|}{|DN|} = ?$

- A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{3}$

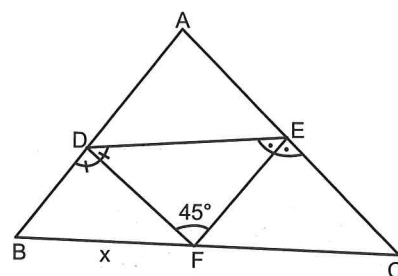
29.



$\triangle ABC \Rightarrow$
 $|AC| = ? \text{ cm}$

- A) 12 B) 13 C) 14 D) 15 E) 16

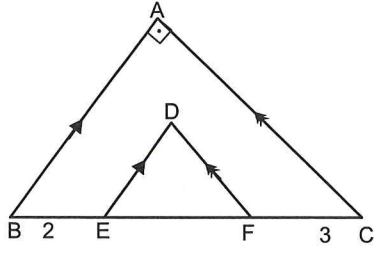
30.



$\triangle ABC \Rightarrow$
 $m(\hat{D}FE) = 45^\circ$
 $|AB| = 3\sqrt{5}$
 $|AC| = 6\sqrt{5}$
 $|BF| = x = ? \text{ cm}$

- A) 4 B) $2\sqrt{5}$ C) 5 D) $3\sqrt{5}$ E) 10

31.

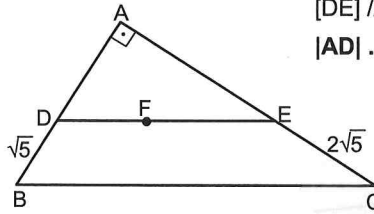


$(\triangle ABC) \Rightarrow$
 $[DE] \parallel [AB]$
 $[DF] \parallel [AC]$
 $|EF| = ? \text{ cm}$

D, üçgenin iç teğet çemberinin merkezi
 (D: center of inscribed circle of the triangle)

- A) 3 B) $2\sqrt{2}$ C) $\sqrt{3}$ D) $\sqrt{13}$ E) $\sqrt{15}$

32.

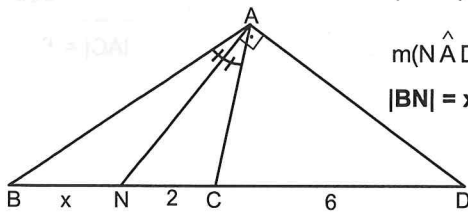


$[DE] \parallel [BC]$
 $|AD| \cdot |AE| = ? \text{ cm}^2$

F; (ABC) üçgeninin iç teğet çemberinin merkezi,
 (F; center of inscribed circle of the triangle)

- A) 18 B) 21 C) 24 D) 27 E) 28

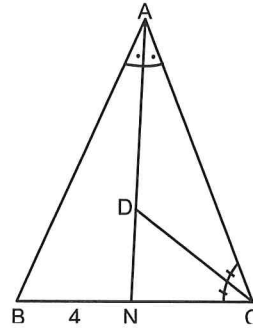
33.



$(\hat{B}AN) = (\hat{N}AC)$
 $m(\hat{N}AD) = 90^\circ$
 $|BN| = x = ? \text{ cm}$

- A) 6 B) 5 C) 4 D) 3 E) 2

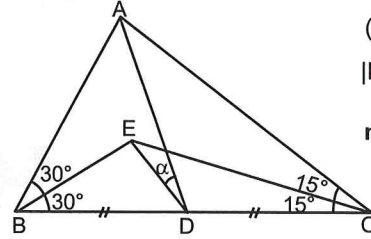
34.



$2 \cdot |AD| = 3 \cdot |DN|$
 $|AB| = ? \text{ cm}$

- A) 15 B) 12 C) 6 D) 9 E) 8

35.



$(\triangle ABC) \Rightarrow$
 $|BD| = |DC|$
 $m(\hat{E}DA) = \alpha = ?$

- A) 30 B) 20 C) 18 D) 15 E) 10

CEVAPLAR / ANSWERS

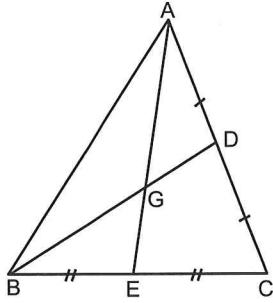
1-C	2-D	3-D	4-B	5-A	6-E
7-C	8-E	9-A	10-A	11-A	12-D
13-C	14-E	15-D	16-A	17-B	18-C
19-C	20-B	21-E	22-A	23-A	24-B
25-B	26-D	27-D	28-B	29-E	30-C
31-D	32-A	33-C	34-C	35-D	

ÜNİTE 1
UNIT 1

ÜÇGENDE KENARORTAY
THE MEDIAN OF TRIANGLE

BÖLÜM 9
CHAPTER 9

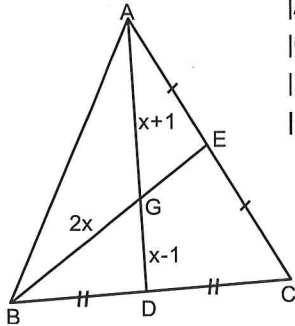
1.



$|AB| = 9 \text{ cm}$
 $|AE| = 12 \text{ cm}$
 $|BD| = 9 \text{ cm}$
 $\angle(AGB) = ? \text{ cm}$

- A) 18 B) 23 C) 25 D) 27 E) 30

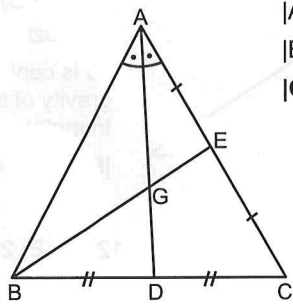
2.



$|AG| = x+1 \text{ cm}$
 $|GD| = x-1 \text{ cm}$
 $|BG| = 2x \text{ cm}$
 $|GE| = ? \text{ cm}$

- A) 3 B) $\frac{7}{2}$ C) 4 D) 5 E) $\frac{11}{2}$

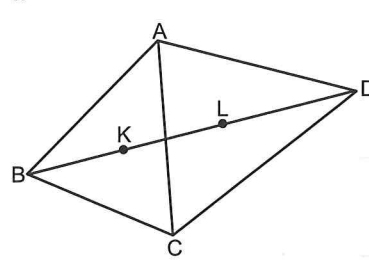
3.



$|AG| = 6 \text{ cm}$
 $|BC| = 8 \text{ cm}$
 $|GE| = ? \text{ cm}$

- A) 5 B) 4 C) 3 D) $\frac{5}{2}$ E) $\frac{3}{2}$

4.

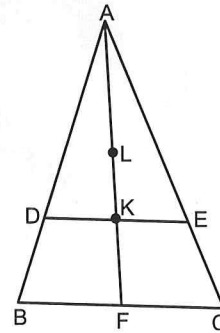


K, ($\triangle ABC$)
L, ($\triangle ACD$)
K, L ağırlık merkezleri
(K is center of gravity of ($\triangle ABC$))
(L is center of gravity of ($\triangle ACD$))

$|BD| = 24 \text{ cm}$, $|KL| = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

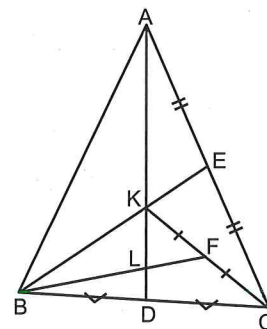
5.



K, ($\triangle ABC$), L, ($\triangle ADE$)
K, L üçgenlerin ağırlık merkezleri
(K is center of gravity of ($\triangle ABC$))
(L is center of gravity of ($\triangle ADE$))
 $|AF| = 27 \text{ cm}$
 $|KL| = ? \text{ cm}$

- A) 9 B) 7 C) 6 D) 5 E) 4

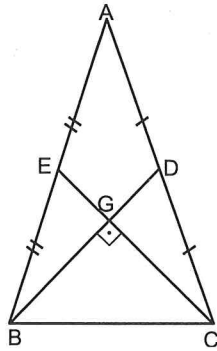
6.



$|AE| = |EC|$
 $|BD| = |DC|$
 $|KF| = |FC|$
 $|KL| = 4 \text{ cm}$
 $|AD| = ? \text{ cm}$

- A) 24 B) 21 C) 20 D) 19 E) 18

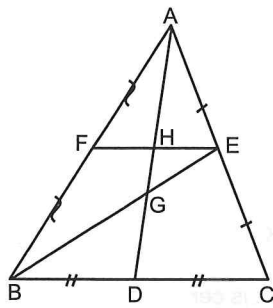
7.



$[BD] \perp [EC]$
 $|BD| = 9 \text{ cm}$
 $|EC| = 12 \text{ cm}$
 $|BC| = ? \text{ cm}$

- A) 10 B) 12 C) 15 D) 18 E) 20

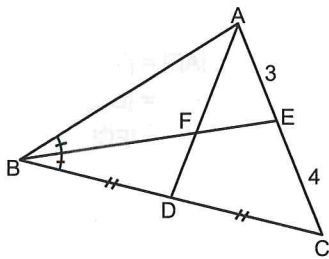
8.



$|HG| = 2 \text{ cm}$
 $|AH| + |GD| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

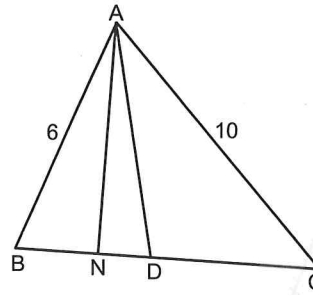
9.



$[AD]$ kenarortay
 (median)
 $[BE]$ açıortay
 (bisector)
 $|AE| = 3 \text{ cm}$
 $|EC| = 4 \text{ cm}$
 $\frac{|AF|}{|FD|} = ?$

- A) 2 B) $\frac{4}{3}$ C) $\frac{3}{2}$ D) $\frac{3}{4}$ E) 3

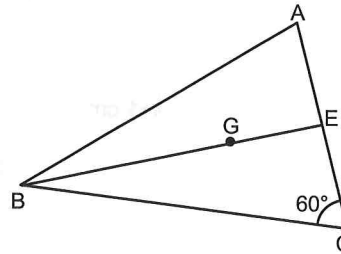
10.



$(\triangle ABC) \Rightarrow$
 $m(\widehat{BAN}) = m(\widehat{NAC})$
 $|BD| = |DC|$
 $\frac{|ND|}{|BC|} = ?$

- A) $\frac{1}{4}$ B) $\frac{1}{6}$ C) $\frac{1}{8}$ D) $\frac{1}{10}$ E) $\frac{1}{12}$

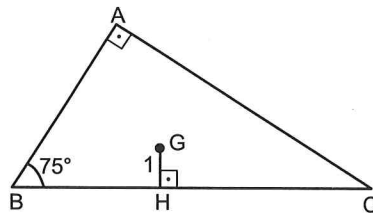
11.



G, $(\triangle ABC)$ ağırlık
 merkezi
 (Center of gravity)
 $|AC| = 12 \text{ cm}$
 $|BC| = 15 \text{ cm}$
 $|GE| = ? \text{ cm}$

- A) $\sqrt{19}$ B) $\sqrt{15}$ C) $\sqrt{13}$ D) $\sqrt{10}$ E) $\sqrt{7}$

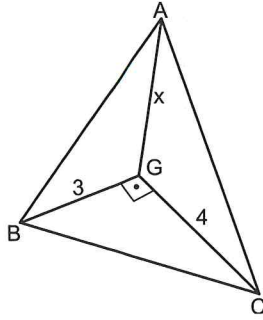
12.



G, $(\triangle ABC)$ ağırlık
 merkezi
 (G is center of
 gravity of the
 triangle)
 $|BC| = ? \text{ cm}$

- A) 6 B) 8 C) 10 D) 12 E) 24

13.



G, (ABC) üçgeninin ağırlık merkezidir.
(G is the center of gravity of the triangle ABC)
 $|AG| = x = ? \text{ cm}$

- A) 5 B) 7,5 C) 10 D) 12 E) 12,5

14. G noktası (ABC) üçgeninin ağırlık merkezidir.

(The G-spot is the center of gravity of the triangle ABC)

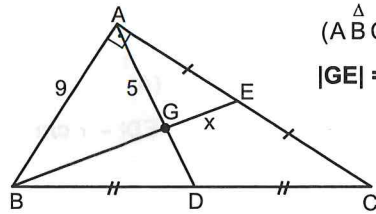
$$m(\hat{B} \hat{A} \hat{C}) = 90^\circ$$

$$|AG| = 5 \text{ cm}$$

$$|BC| = ? \text{ cm}$$

- A) 15 B) 12,5 C) 10 D) 7,5 E) 5

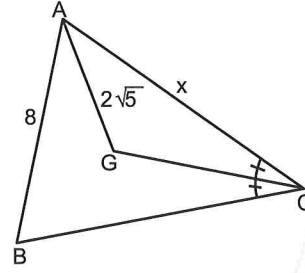
15.



(ABC) \Rightarrow
 $|GE| = x = ? \text{ cm}$

- A) $\sqrt{6}$ B) $2\sqrt{2}$ C) $\sqrt{10}$ D) $2\sqrt{3}$ E) $\sqrt{13}$

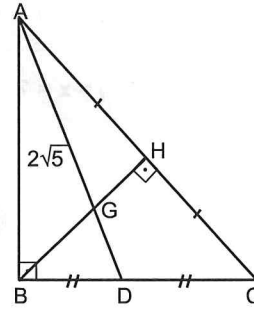
16.



G; (ABC) ağırlık merkezi
(G is center of the gravity of ABC)
 $|AC| = x = ? \text{ cm}$

- A) $3\sqrt{5}$ B) $4\sqrt{5}$ C) $4\sqrt{3}$ D) $5\sqrt{2}$ E) $2\sqrt{13}$

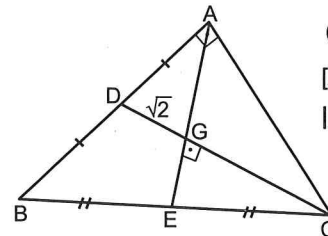
17.



(ABC) \Rightarrow
 $|DC| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

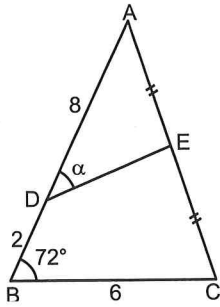
18.



(ABC) \Rightarrow
 $[AE] \perp [DC]$
 $|BC| = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7,5 E) 8

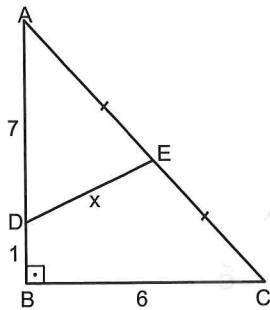
19.



$(\triangle ABC) \Rightarrow$
 $m(\hat{ADE}) = \alpha = ?$

- A) 24 B) 30 C) 36 D) 42 E) 45

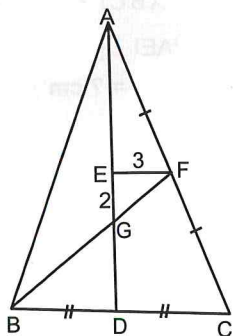
20.



$(\triangle ABC) \Rightarrow$
 $|DE| = x = ?$

- A) $3\sqrt{2}$ B) 4 C) 5 D) $2\sqrt{3}$ E) $2\sqrt{2}$

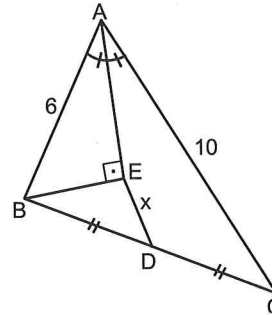
21.



$(\triangle ABC) \Rightarrow$
 $[EF] \parallel [BC]$
 $|AD| + |BC| = ? \text{ cm}$

- A) 18 B) 20 C) 21 D) 24 E) 25

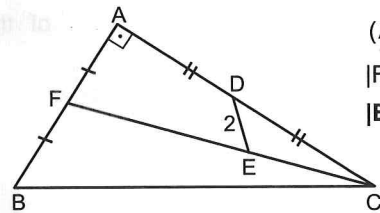
22.



$(\triangle ABC) \Rightarrow$
 $[AE] \perp [EB]$
 $|ED| = x = ? \text{ cm}$

- A) $\frac{3}{2}$ B) 2 C) $\frac{5}{2}$ D) 3 E) $\frac{7}{2}$

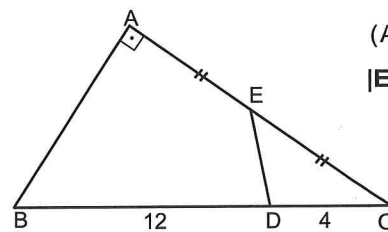
23.



$(\triangle ABC) \Rightarrow$
 $|FC| = 3 \cdot |EC|$
 $|BC| = ? \text{ cm}$

- A) 6 B) 8 C) 9 D) 10 E) 12

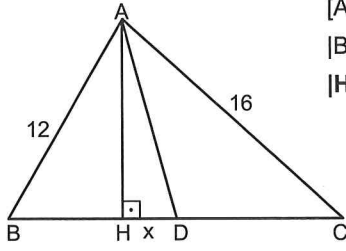
24.



$(\triangle ABC) \Rightarrow$
 $|ED| = ? \text{ cm}$

- A) 3 B) 3,5 C) 4 D) 4,5 E) 5

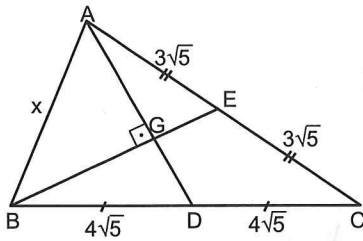
25.



$[AH] \perp [BC]$
 $|BD| = |DC| = 7 \text{ cm}$
 $|HD| = x = ? \text{ cm}$

- A) 1 B) 2 C) 3 D) 4 E) 5

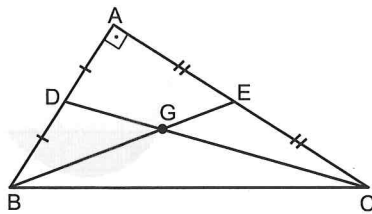
26.



$(\triangle ABC) \Rightarrow$
 $[AD] \perp [BE]$
 $|AB| = x = ? \text{ cm}$

- A) $4\sqrt{5}$ B) 9 C) 10 D) $5\sqrt{5}$ E) 12

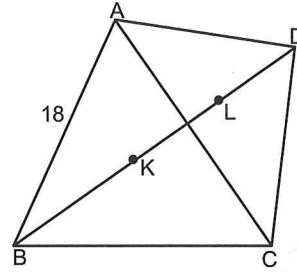
27.



$m(\hat{BAC}) = 90^\circ$
 $|BE| = 9 \text{ cm}$
 $|CD| = 12 \text{ cm}$
 $|BC| = ? \text{ cm}$

- A) 15 B) 18 C) 20 D) $3\sqrt{5}$ E) $6\sqrt{5}$

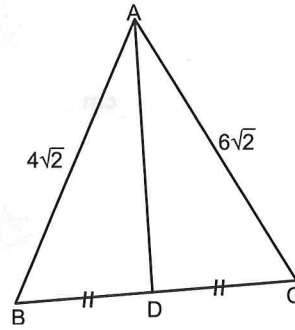
28.



$\{K\}, \{L\} \in [BD]$
 $m(\hat{ADC}) = 120^\circ$
 (ABC) eşkenar üçgen
 (ABC) equilateral triangle
 K, L ağırlık merkezleri
 (K, L) center of gravity
 $|KL| = ? \text{ cm}$

- A) 6 B) $4\sqrt{3}$ C) 8 D) 9 E) $6\sqrt{3}$

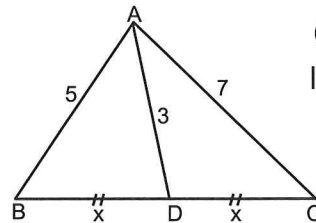
29.



$(\triangle ABC) \Rightarrow$
 $|BC| = 8 \text{ cm}$
 $|AD| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

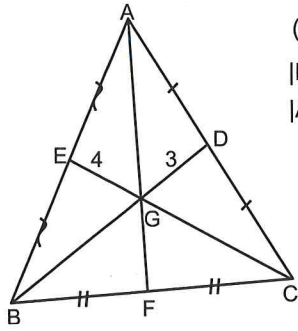
30.



$(\triangle ABC) \Rightarrow$
 $|BD| = |DC| = x = ? \text{ cm}$

- A) $\sqrt{10}$ B) $\sqrt{13}$ C) $2\sqrt{7}$ D) $\sqrt{30}$ E) $4\sqrt{2}$

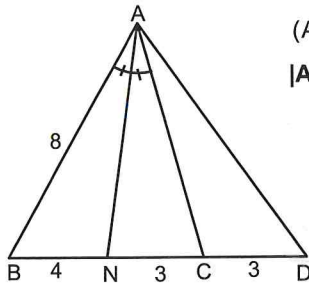
31.



$\triangle ABC \Rightarrow$
 $|BC| = 12 \text{ cm}$
 $|AG| = ? \text{ cm}$

- A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $3\sqrt{2}$ D) $\sqrt{14}$ E) $2\sqrt{14}$

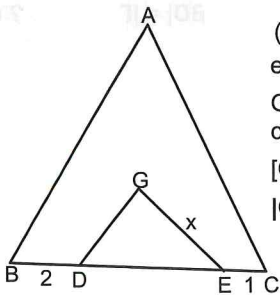
32.



$\triangle ABD \Rightarrow$
 $|AD| = ? \text{ cm}$

- A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $3\sqrt{6}$ D) $4\sqrt{6}$ E) $6\sqrt{3}$

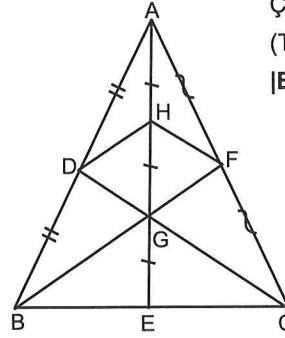
33.



$\triangle ABC$ eşkenar (ABC equilateral triangle)
 G, ağırlık merkezi (G, center of gravity)
 $[GD] \parallel [AB]$
 $|GE| = ? \text{ cm}$

- A) $\sqrt{7}$ B) $\sqrt{5}$ C) $2\sqrt{2}$ D) 4 E) 5

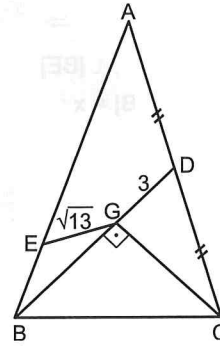
34.



$\text{Ç(DGFH)} = 8 \text{ cm}$
 (The perimeter (DGFH)=8cm)
 $|BG| + |GC| = ? \text{ cm}$

- A) 4 B) 6 C) 8 D) 10 E) 12

35.



G, $\triangle ABC$ ağırlık merkezi
 (G, center of gravity)
 $[BD] \perp [GC]$
 $|AE| = 3 \cdot |EB|$
 $|BC| = ? \text{ cm}$

- A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $4\sqrt{5}$ D) 10 E) 12

CEVAPLAR / ANSWERS

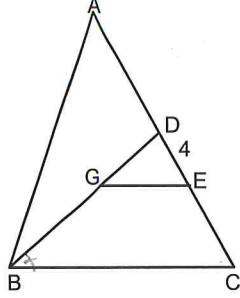
1-B	2-A	3-D	4-E	5-C	6-E
7-A	8-E	9-C	10-C	11-A	12-D
13-A	14-A	15-E	16-E	17-B	18-C
19-C	20-A	21-D	22-B	23-E	24-C
25-D	26-C	27-E	28-B	29-A	30-C
31-E	32-C	33-A	34-C	35-D	

ÜNİTE 1
UNIT 1

ÜÇGENDE BENZERLİK
SIMILARITY IN TRIANGLES

BÖLÜM 10
CHAPTER 10

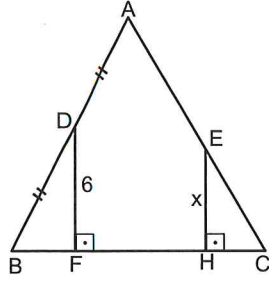
1.



G , ($\triangle ABC$) ağırlık merkezi
(G , center of gravity of ($\triangle ABC$))
[GE] // [BC]
[AC] = ? cm

- A) 16 B) 18 C) 20 D) 22 E) 24

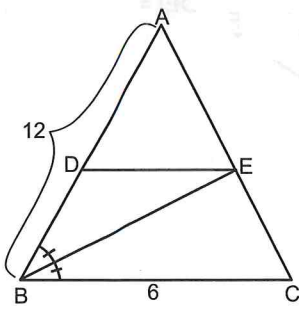
2.



($\triangle ABC$) \Rightarrow
2| EC | = | AE |
| EH | = x = ? cm

- A) 3 B) 4 C) 4,5 D) 5 E) 5,5

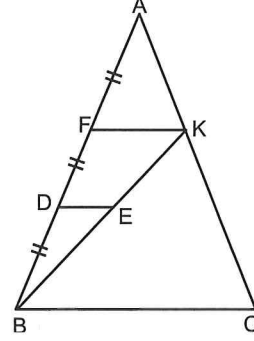
3.



($\triangle ABC$) \Rightarrow
[DE] // [BC]
| DE | = ? cm

- A) 4 B) 5 C) 4,5 D) 3 E) 3,5

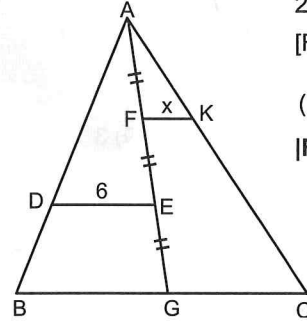
4.



[FK] // [DE] // [BC]
($\triangle ABC$) \Rightarrow
| DE | = 3 cm
| BC | = ? cm

- A) 18 B) 16 C) 15 D) 12 E) 9

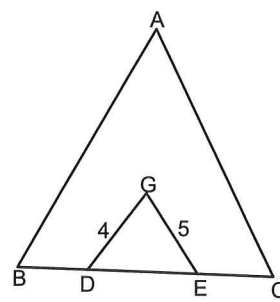
5.



2| BG | = 3| GC ||
[FK] // [DE] // [BC]
($\triangle ABC$) \Rightarrow
| FK | = x = ? cm

- A) 1 B) 2 C) 3 D) 2,5 E) 4

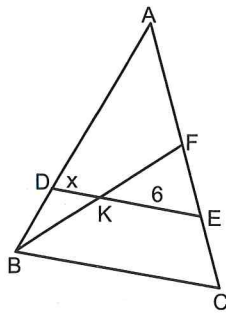
6.



G , ($\triangle ABC$) ağırlık merkezi
(G , center of gravity of ($\triangle ABC$))
[GD] // [AB]
[GE] // [AC]
| AB | + | AC | = ? cm

- A) 21 B) 24 C) 27 D) 30 E) 36

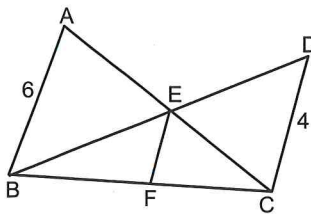
7.



$|AF| = 2|FE| = 2|EC|$
 $[DE] \parallel [BC]$
 $|DK| = x = ? \text{ cm}$

- A) 0,8 B) 1 C) 1,5 D) 2 E) 2,4

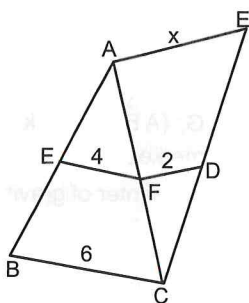
8.



$[AB] \parallel [DC] \parallel [EF]$
 $|EF| = ? \text{ cm}$

- A) 1,2 B) 2 C) 2,4 D) 3 E) 3,6

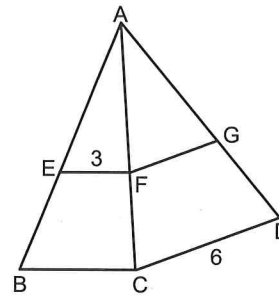
9.



$[EF] \parallel [BC]$
 $[FD] \parallel [AE]$
 $|AE| = x = ? \text{ cm}$

- A) 3 B) 3,5 C) 4 D) 4,8 E) 6

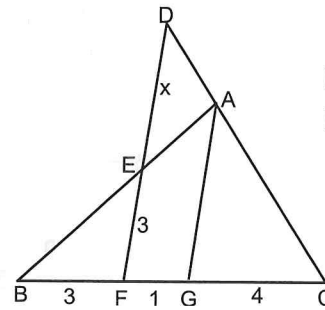
10.



$[EF] \parallel [BC]$
 $[FG] \parallel [CD]$
 $|BC| \cdot |FG| = ? \text{ cm}^2$

- A) 12 B) 14 C) 16 D) 18 E) 24

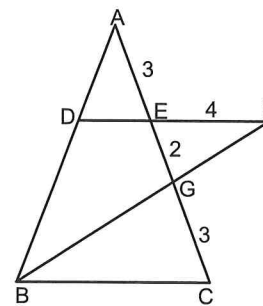
11.



$(\triangle ABC), (\triangle DFC) \Rightarrow$
 $[DF] \parallel [AG]$
 $|DE| = x = ? \text{ cm}$

- A) 2 B) 2,2 C) 2,4 D) 2,8 E) 3

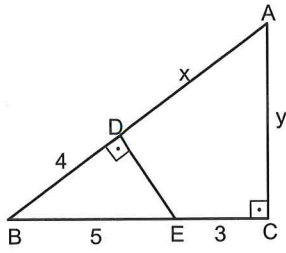
12.



$[DF] \parallel [BC]$
 $[BF] \cap [AC] = \{G\}$
 $|DE| = ? \text{ cm}$

- A) $\frac{7}{3}$ B) $\frac{9}{4}$ C) $\frac{8}{3}$ D) $\frac{5}{2}$ E) $\frac{3}{2}$

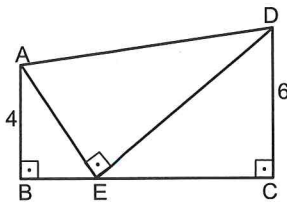
13.



$\triangle ABC \Rightarrow$
 $x + y = ? \text{ cm}$

- A) 12 B) 15 C) 16 D) 17 E) 18

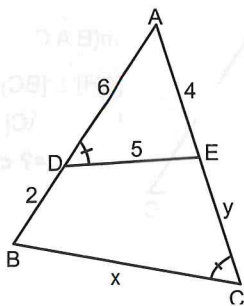
14.



$[AB] \perp [BC]$
 $[DC] \perp [BC]$
 $[BC] = 11 \text{ cm}$
 $[AE] + [ED] = ? \text{ cm}$

- A) 10 B) 15 C) 18 D) 19 E) 20

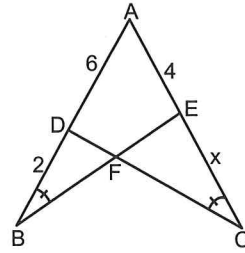
15.



$\triangle ABC \Rightarrow$
 $x + y = ? \text{ cm}$

- A) 24 B) 20 C) 18 D) 16 E) 15

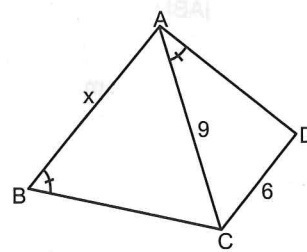
16.



$\triangle ABE, \triangle ADC \Rightarrow$
 $|EC| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

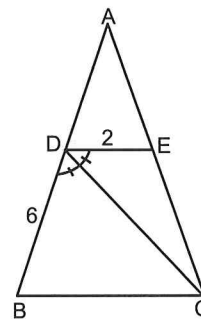
17.



$[AB] \parallel [CD]$
 $|AB| = x = ? \text{ cm}$

- A) 10 B) 11 C) 11,5 D) 12 E) 13,5

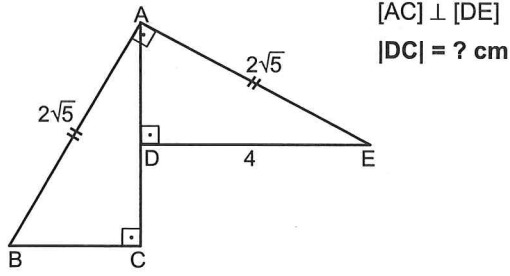
18.



$\triangle ABC \Rightarrow$
 $[DE] \parallel [BC]$
 $|AD| = ? \text{ cm}$

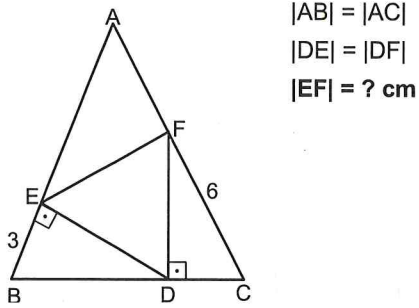
- A) 3 B) 3,5 C) 4 D) 5 E) 5,6

19.



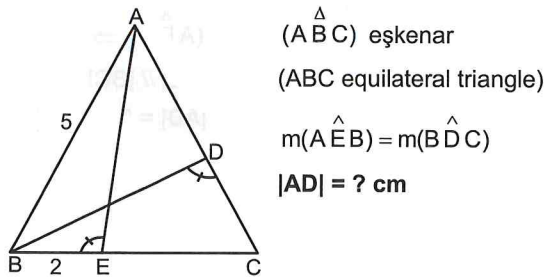
- A) 3 B) 1 C) 3,5 D) 2 E) 2,5

20.



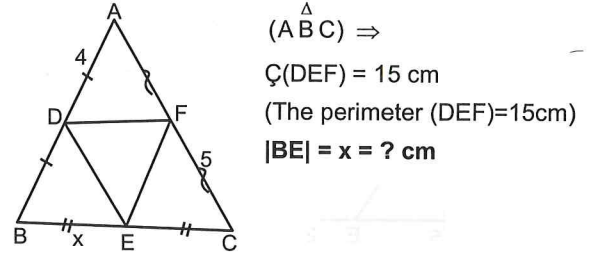
- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) 6 E) 7

21.



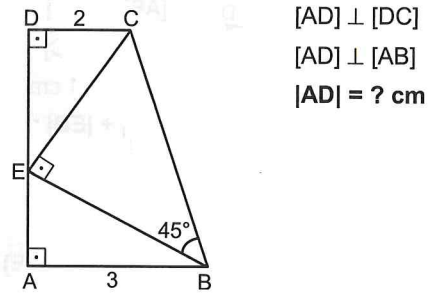
- A) 3 B) 2 C) 4 D) $2\sqrt{3}$ E) $3\sqrt{2}$

22.



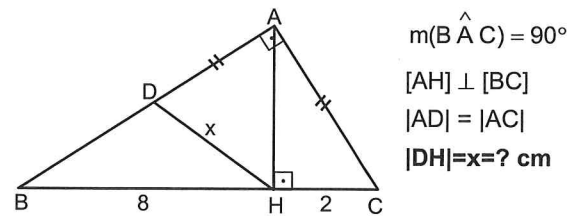
- A) 4 B) 4,5 C) 5 D) 5,5 E) 6

23.



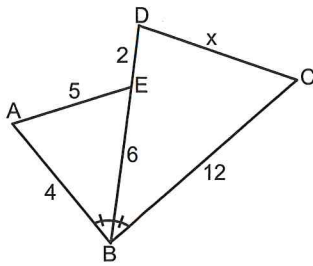
- A) $\sqrt{13}$ B) $\sqrt{10}$ C) 5 D) $2\sqrt{5}$ E) 9

24.



- A) 5 B) $2\sqrt{5}$ C) 4 D) $3\sqrt{5}$ E) 6

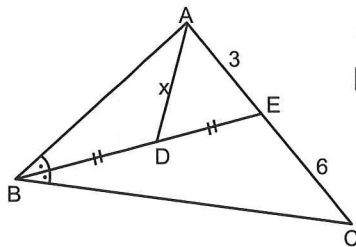
25.



$\triangle (DBC), \triangle (ABE) \Rightarrow$
 $|DC| = x = ? \text{ cm}$

- A) 7,5 B) 10 C) 12,5 D) 15 E) 18

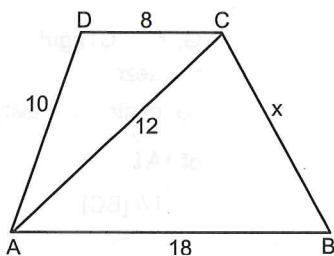
26.



$\triangle (ABC) \Rightarrow$
 $|AD| = x = ? \text{ cm}$

- A) 3 B) 2,5 C) 2,4 D) 2,2 E) 2

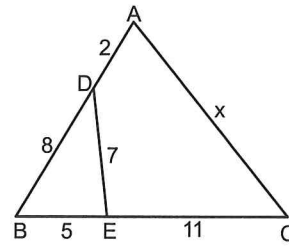
27.



$[DC] \parallel [AB]$
 $|BC| = x = ? \text{ cm}$

- A) 12 B) 13 C) 15 D) 16 E) 17

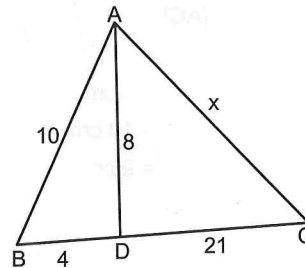
28.



$\triangle (ABC) \Rightarrow$
 $|AC| = x = ? \text{ cm}$

- A) 10,5 B) 11 C) 12 D) 13,5 E) 14

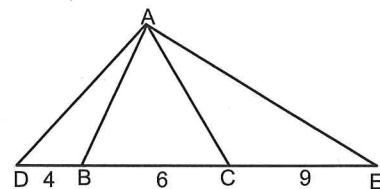
29.



$\triangle (ABC) \Rightarrow$
 $|AC| = x = ? \text{ cm}$

- A) 16 B) 17 C) 18 D) 20 E) 24

30.

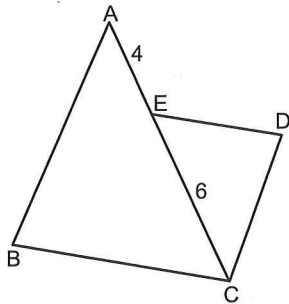


$\triangle (ABC)$ eşkenar / (ABC equilateral triangle)

$\frac{|AD|}{|AE|} = ?$

- A) $\frac{2}{3}$ B) $\frac{3}{4}$ C) $\frac{1}{2}$ D) $\frac{4}{5}$ E) $\frac{5}{6}$

31.



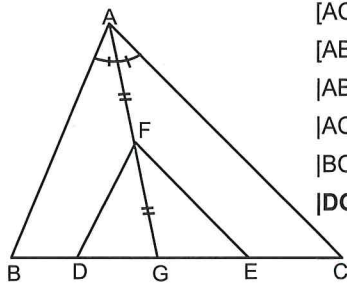
$[AB] \parallel [CD]$
 $[ED] \parallel [BC]$

$|AB| + |BC| + |CD| + |DE| = 24 \text{ cm}$

$|DE| + |DC| = ? \text{ cm}$

- A) 18 B) 15 C) 14 D) 12 E) 9

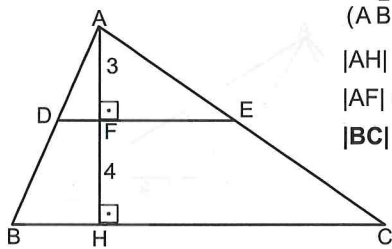
32.



$[AC] \parallel [FE]$
 $[AB] \parallel [FD]$
 $|AB| = 8 \text{ cm}$
 $|AC| = 10 \text{ cm}$
 $|BC| = 9 \text{ cm}$
 $|DG| + |EC| = ? \text{ cm}$

- A) 3 B) $\frac{7}{2}$ C) 4 D) $\frac{9}{2}$ E) 5

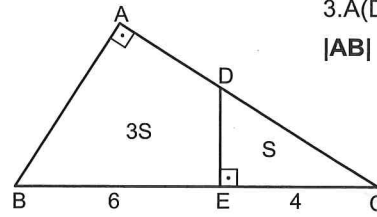
33.



$\triangle ABC \Rightarrow$
 $|AH| = |DE| = 7 \text{ cm}$
 $|AF| = 3 \text{ cm}$
 $|BC| = ? \text{ cm}$

- A) $\frac{50}{3}$ B) $\frac{49}{3}$ C) 16 D) $\frac{47}{3}$ E) 15

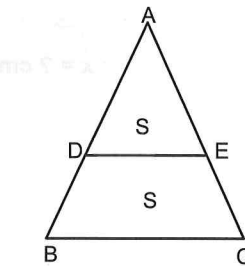
34.



$3 \cdot A(DEC) = A(ADEB)$
 $|AB| = ? \text{ cm}$

- A) 5 B) $\frac{17}{3}$ C) 6 D) $\frac{19}{3}$ E) 8

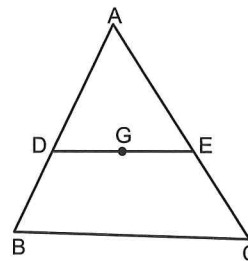
35.



$[DE] \parallel [BC]$
 $A(ADE) = A(CEB)$
 $|DE| = 4 \text{ cm}$
 $|BC| = ? \text{ cm}$

- A) $2\sqrt{5}$ B) 5 C) $4\sqrt{2}$ D) 6 E) 8

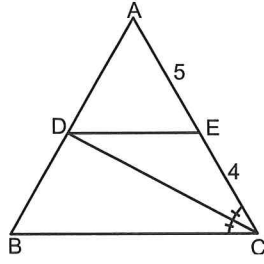
36.



G, $\triangle ABC$ ağırlık merkezi
(G, center of gravity of $\triangle ABC$)
 $[DE] \parallel [BC]$
 $\frac{A(ADE)}{A(DBCE)} = ?$

- A) $\frac{4}{5}$ B) $\frac{3}{5}$ C) $\frac{1}{2}$ D) $\frac{3}{4}$ E) $\frac{5}{6}$

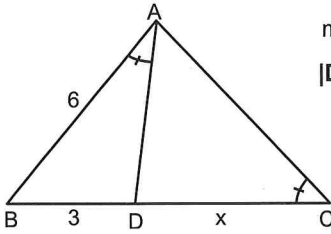
37.



$\triangle ABC \Rightarrow$
 $[DE] \parallel [BC]$
 $|BC| = ? \text{ cm}$

- A) 7,2 B) 8,4 C) 7 D) 6,8 E) 10

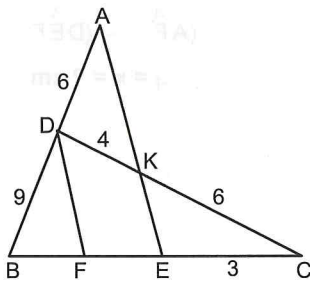
38.



$m(\hat{B}AD) = m(\hat{A}CB)$
 $|DC| = x = ? \text{ cm}$

- A) 5 B) 6 C) 8 D) 12 E) 9

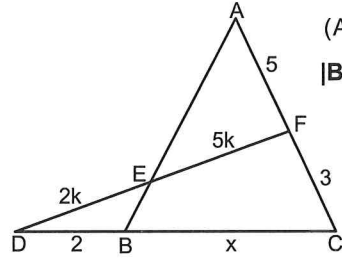
39.



$\triangle ABE, \triangle DBC \Rightarrow$
 $[DF] \parallel [AE]$
 $|BE| = ? \text{ cm}$

- A) 3,6 B) 4,8 C) 5 D) 5,6 E) 6

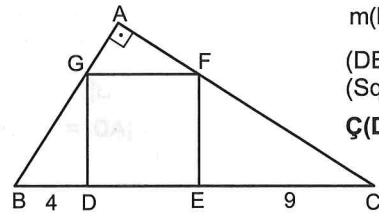
40.



$\triangle ABC \Rightarrow$
 $|BC| = x = ? \text{ cm}$

- A) 8 B) 7 C) 6 D) 5 E) 4

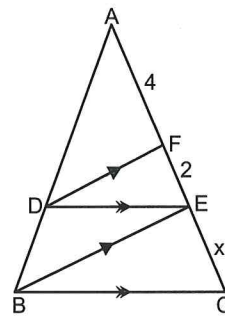
41.



$m(\hat{B}AC) = 90^\circ$
 (DEFG) kare,
 (Square)
 $\text{Ç}(\text{DEFG}) = ? \text{ cm}$

- A) 24 B) 20 C) 18 D) 16 E) 15

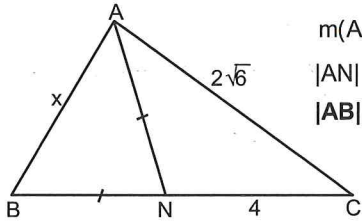
42.



$\triangle ABC \Rightarrow$
 $[DF] \parallel [BE]$
 $[DE] \parallel [BC]$
 $|EC| = x = ? \text{ cm}$

- A) 4,5 B) 4 C) 5 D) 3,5 E) 3

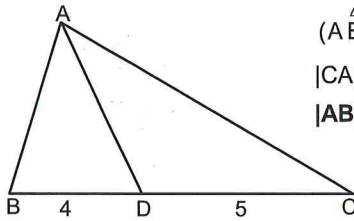
43.



$m(\hat{A}NC) = m(\hat{A}NB)$
 $|AN| = |BN|$
 $|AB| = x = ? \text{ cm}$

- A) $\sqrt{6}$ B) $\sqrt{3}$ C) $2\sqrt{2}$ D) 2 E) 3

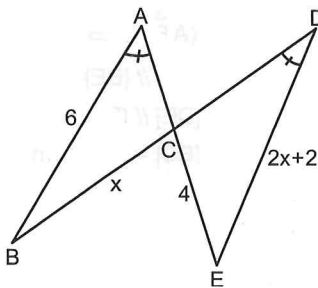
44.



$\triangle ABC \Rightarrow$
 $|CA| = |CB|$
 $|AB| = |AD| = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

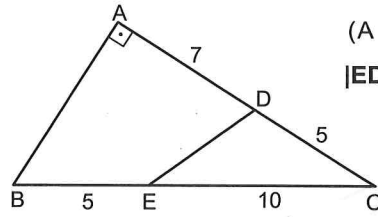
45.



$[BD] \cap [AE] = \{C\}$
 $|BC| = x = ?$

- A) $\sqrt{3}$ B) 2 C) 3 D) 5 E) $2\sqrt{3}$

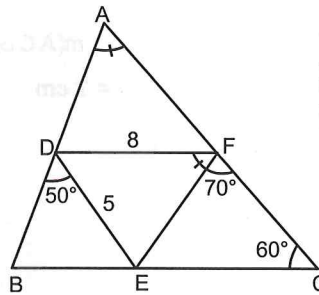
46.



$\triangle ABC \Rightarrow$
 $|ED| = ? \text{ cm}$

- A) 5 B) 4 C) $3\sqrt{5}$ D) $2\sqrt{5}$ E) 10

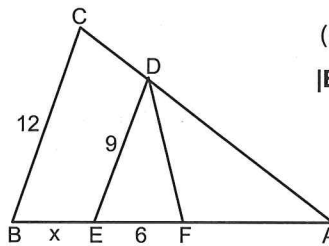
47.



$\triangle ABC \Rightarrow$
 $|BC| = 10 \text{ cm}$
 $|AB| = ? \text{ cm}$

- A) 8 B) 10 C) 12 D) 14 E) 16

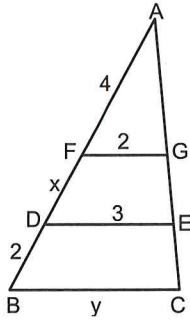
48.



$\triangle ABC \sim \triangle DEF$
 $|BE| = x = ? \text{ cm}$

- A) 6 B) 5,5 C) 5 D) 4,8 E) 4,5

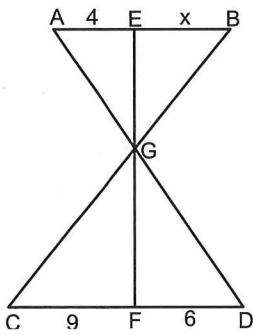
49.



$(\triangle ABC) \Rightarrow$
 $[FG] \parallel [DE] \parallel [BC]$
 $x + y = ? \text{ cm}$

- A) 6 B) 7 C) 7,5 D) 8 E) 8,5

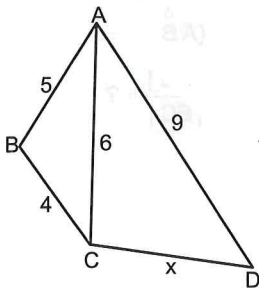
50.



$[AB] \parallel [CD]$
 $[AD] \cap [BC] \cap [EF] = \{G\}$
 $|EB| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

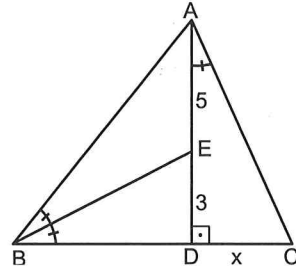
51.



$[AD] \parallel [BC]$
 $|CD| = x = ? \text{ cm}$

- A) 6 B) 7,5 C) 8 D) 8,5 E) 9

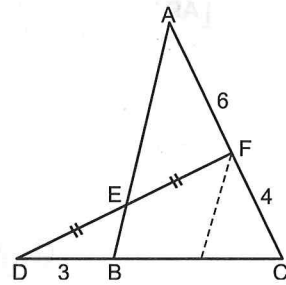
52.



$(\triangle ABC) \Rightarrow$
 $|DC| = x = ? \text{ cm}$

- A) 3 B) 3,5 C) 4 D) 4,5 E) 5

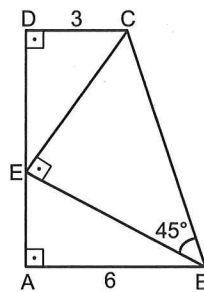
53.



$[DF] \parallel [AB] = \{E\}$
 $|BC| = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

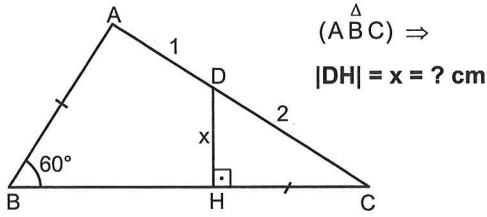
54.



$|AD| = ? \text{ cm}$

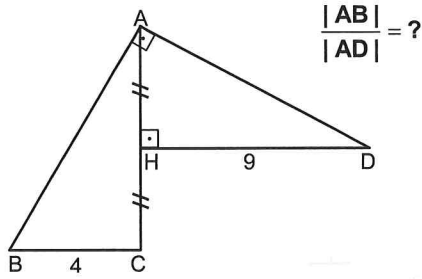
- A) 7 B) 8 C) 9 D) 10 E) 11

55.



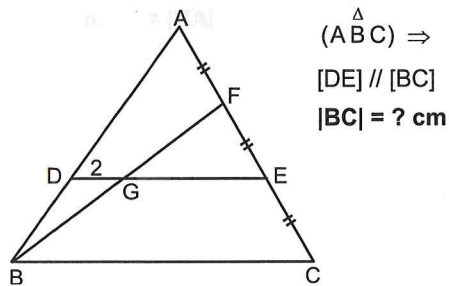
- A) $2\sqrt{3}$ B) $\sqrt{3}$ C) 2 D) 1 E) $\sqrt{2}$

56.



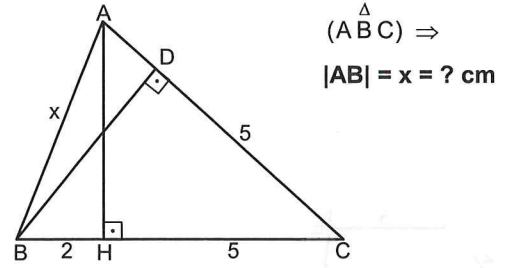
- A) $\frac{3\sqrt{2}}{4}$ B) $\frac{2\sqrt{2}}{3}$ C) $\sqrt{2}$ D) $\frac{3}{2}$ E) $\frac{4}{3}$

57.



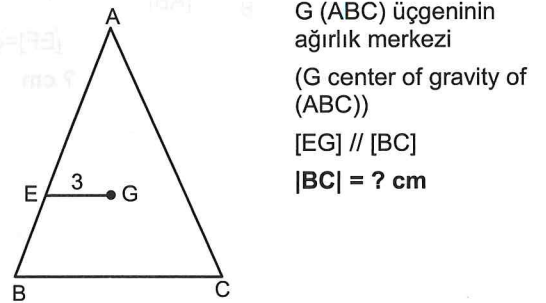
- A) 6 B) 8 C) 10 D) 12 E) 14

58.



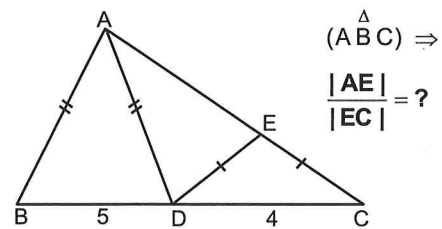
- A) $2\sqrt{5}$ B) $2\sqrt{6}$ C) $2\sqrt{7}$ D) $4\sqrt{2}$ E) 6

59.



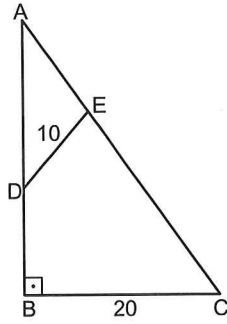
- A) 8 B) 9 C) 10 D) 12 E) 15

60.



- A) $\frac{5}{3}$ B) $\frac{4}{3}$ C) $\frac{3}{2}$ D) $\frac{5}{2}$ E) $\frac{9}{4}$

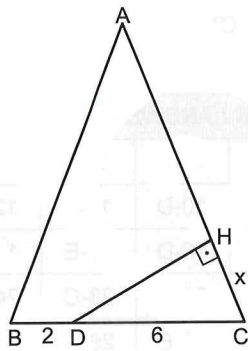
61.



$|EC| = 3 \cdot |AE|$
 $|AD| = 2 \cdot |DB|$
 $|AB| = ? \text{ cm}$

- A) $8\sqrt{3}$ B) $10\sqrt{3}$ C) $12\sqrt{3}$
 D) $14\sqrt{3}$ E) $16\sqrt{3}$

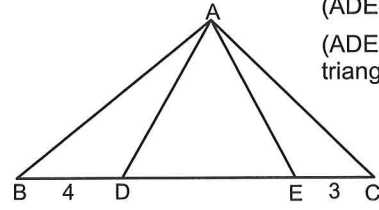
62.



$|AB| = |AC| = 12 \text{ cm}$
 $|HC| = x = ? \text{ cm}$

- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

63.

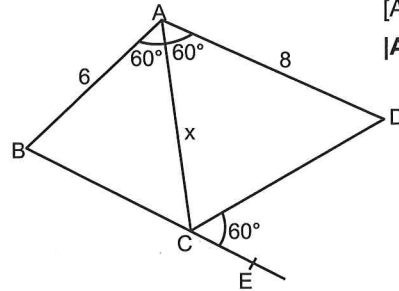


(ADE) eşkenar üçgen
 (ADE is an equilateral triangle)

$m(\hat{BAC}) = 120^\circ$, $A(ADE) = ? \text{ cm}^2$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{5}$ D) $5\sqrt{3}$ E) $6\sqrt{3}$

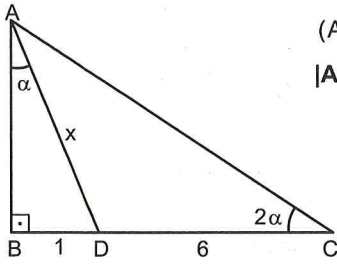
64.



$[AC] \perp [BE] = \{C\}$
 $|AC| = x = ? \text{ cm}$

- A) $4\sqrt{3}$ B) $5\sqrt{2}$ C) $3\sqrt{6}$ D) $2\sqrt{14}$ E) $2\sqrt{15}$

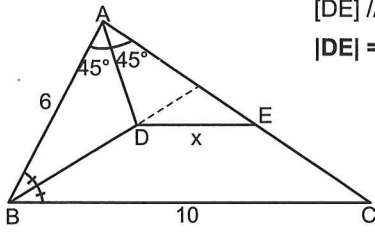
65.



$\triangle ABC \Rightarrow$
 $|AD| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) $2\sqrt{5}$ E) $2\sqrt{6}$

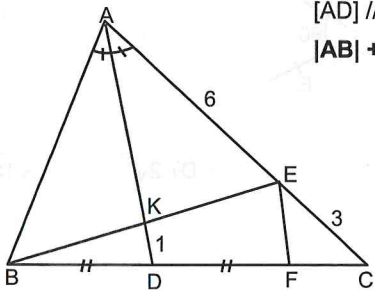
66.



$[DE] \parallel [BC]$
 $|DE| = x = ? \text{ cm}$

- A) $\frac{10}{3}$ B) 4 C) 5 D) $\frac{15}{4}$ E) 6

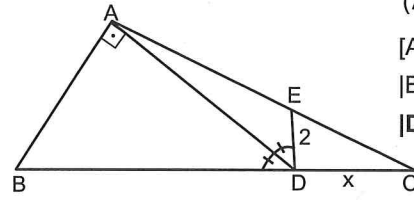
67.



$[AD] \parallel [EF]$
 $|AB| + |AK| = ? \text{ cm}$

- A) 8 B) 9 C) 10 D) 11 E) 12

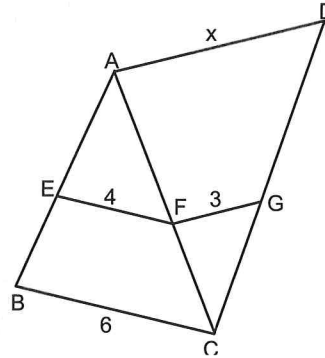
68.



$\triangle ABC \Rightarrow$
 $[AB] \perp [AD]$
 $|BD| = 2|DC|$
 $|DC| = x = ? \text{ cm}$

- A) 3 B) $3\sqrt{2}$ C) 4 D) 5 E) 6

69.



$[EF] \parallel [BC]$
 $[FG] \parallel [AD]$
 $|AD| = x = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

CEVAPLAR / ANSWERS

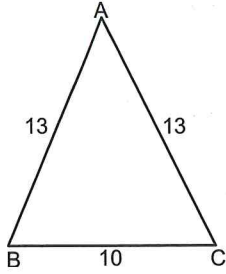
1-E	2-B	3-A	4-A	5-B	6-C
7-D	8-C	9-E	10-D	11-A	12-B
13-A	14-B	15-C	16-D	17-E	18-A
19-D	20-B	21-A	22-E	23-C	24-B
25-B	26-A	27-C	28-E	29-D	30-A
31-E	32-D	33-B	34-C	35-C	36-A
37-A	38-E	39-C	40-A	41-A	42-E
43-A	44-B	45-C	46-C	47-D	48-E
49-A	50-D	51-B	52-C	53-B	54-C
55-D	56-B	57-D	58-C	59-B	60-E
61-C	62-C	63-B	64-A	65-B	66-A
67-D	68-C	69-D			

ÜNİTE 1
UNIT 1

ÜÇGENDE ALAN
AREA IN A TRIANGLE

BÖLÜM 11
CHAPTER 11

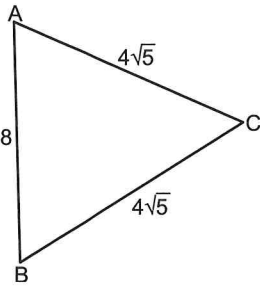
1.



$A(ABC) = ? \text{ cm}^2$

- A) 40 B) 50 C) 60 D) 70 E) 75

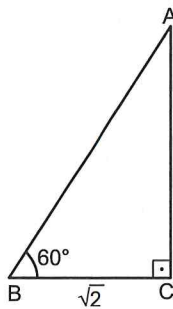
2.



$A(ABC) = ? \text{ cm}^2$

- A) 32 B) 36 C) 38 D) 40 E) 48

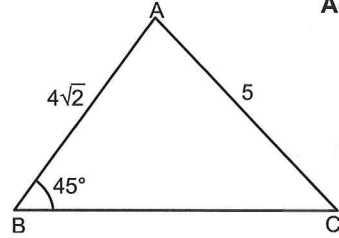
3.



$A(ABC) = ? \text{ cm}^2$

- A) $\sqrt{6}$ B) $\sqrt{5}$ C) 2 D) $\sqrt{3}$ E) $\sqrt{2}$

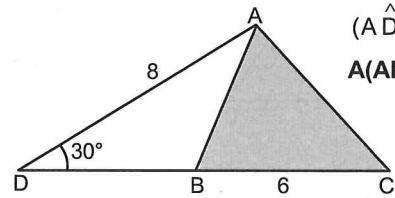
4.



$A(ABC) = ? \text{ cm}^2$

- A) 18 B) 16 C) 15 D) 14 E) 12

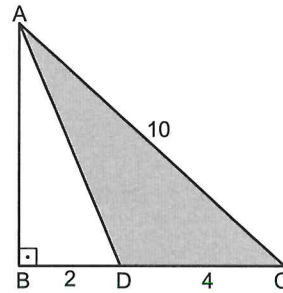
5.



$(\hat{ADC}) \Rightarrow$
 $A(ABC) = ? \text{ cm}^2$

- A) 18 B) 16 C) 15 D) 14 E) 12

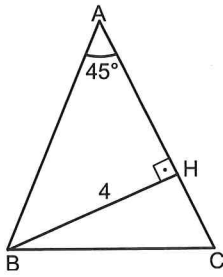
6.



$(\hat{ABC}) \Rightarrow$
 $A(ADC) = ? \text{ cm}^2$

- A) 18 B) 16 C) 14 D) 12 E) 8

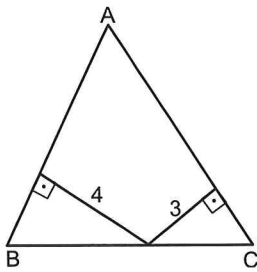
7.



$|AB| = |AC|$
 $A(ABC) = ? \text{ cm}^2$

- A) $12\sqrt{2}$ B) 20 C) $10\sqrt{2}$ D) $8\sqrt{2}$ E) $6\sqrt{2}$

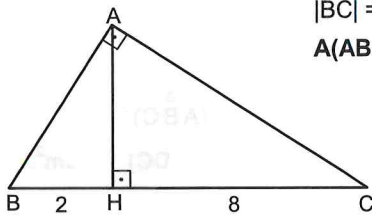
8.



$|AB| = 7 \text{ cm}$
 $|AC| = 8 \text{ cm}$
 $A(ABC) = ? \text{ cm}^2$

- A) 28 B) 26 C) 24 D) 22 E) 20

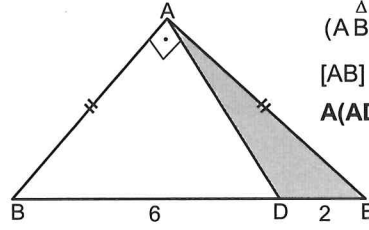
9.



$|BC| = 10 \text{ cm}$
 $A(ABC) = ? \text{ cm}^2$

- A) 24 B) 22 C) 20 D) 18 E) 16

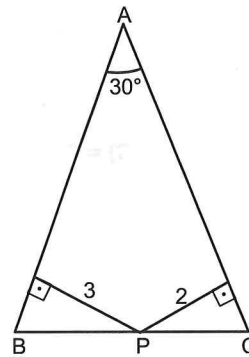
10.



$\triangle ABE \Rightarrow$
 $[AB] \perp [AD]$
 $A(ADE) = ? \text{ cm}^2$

- A) $4\sqrt{2}$ B) $3\sqrt{2}$ C) 3 D) $2\sqrt{2}$ E) 4

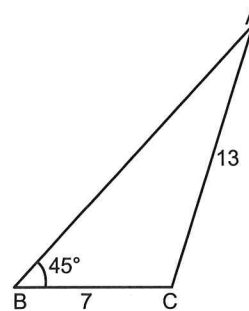
11.



$|AB| = |AC|$
 $A(ABC) = ? \text{ cm}^2$

- A) 25 B) 24 C) 20 D) 15 E) 10

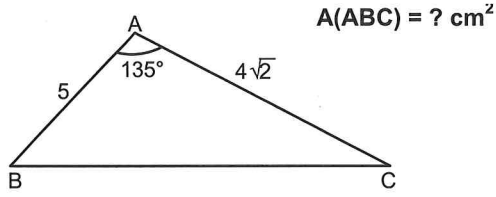
12.



$A(ABC) = ? \text{ cm}^2$

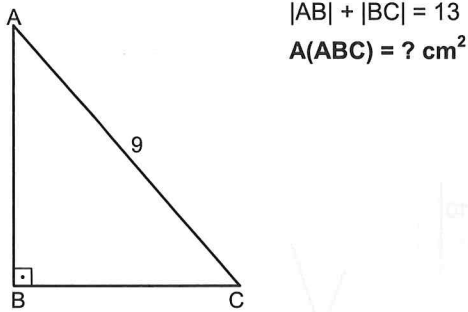
- A) 36 B) 38 C) 40 D) 41 E) 42

13.



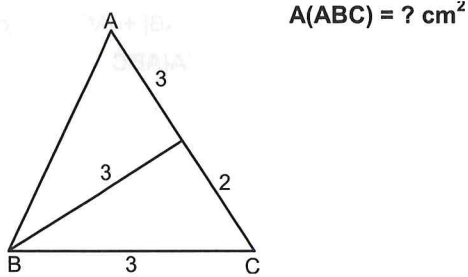
- A) 20 B) 16 C) 10 D) 8 E) 7

14.



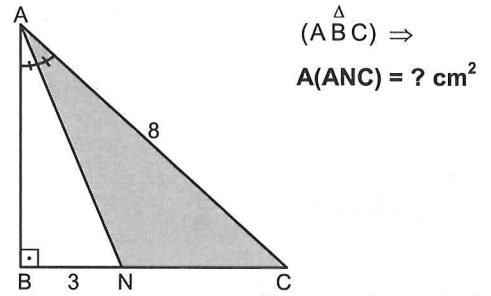
- A) 22 B) 24 C) 26 D) 28 E) 30

15.



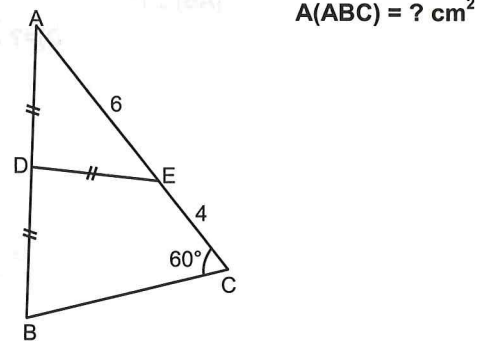
- A) $6\sqrt{2}$ B) $5\sqrt{2}$ C) $4\sqrt{2}$ D) 6 E) 5

16.



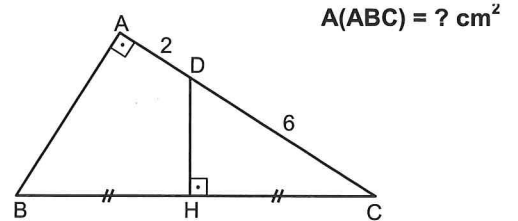
- A) 24 B) 18 C) 16 D) 12 E) 8

17.



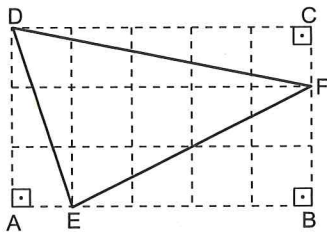
- A) $10\sqrt{3}$ B) $12\sqrt{3}$ C) $18\sqrt{3}$
D) $19\sqrt{3}$ E) $20\sqrt{3}$

18.



- A) $16\sqrt{2}$ B) $18\sqrt{2}$ C) 24 D) 28 E) $20\sqrt{3}$

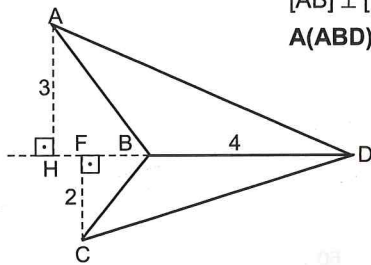
19.



$|AB| = 5 \text{ cm}$
 $|AD| = 3 \text{ cm}$
 $A(DEF) = ? \text{ cm}^2$

- A) 4 B) 5 C) 6 D) 7 E) 8

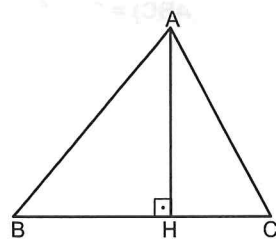
20.



$[AB] \perp [HD]$
 $A(ABD) + A(CBD) = ? \text{ cm}^2$

- A) 10 B) 11 C) 12 D) 14 E) 16

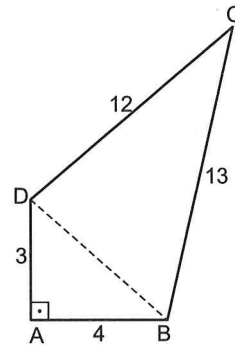
21.



$|AB| = |BC| = 13 \text{ cm}$
 $|AC| = 10 \text{ cm}$
 $|AH| = ? \text{ cm}$

- A) $\frac{60}{13}$ B) $\frac{70}{13}$ C) $\frac{80}{13}$ D) $\frac{100}{13}$ E) $\frac{120}{13}$

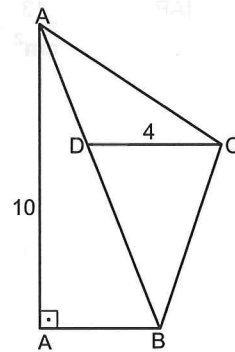
22.



$A(ABCD) = ? \text{ cm}^2$

- A) 48 B) 40 C) 36 D) 32 E) 28

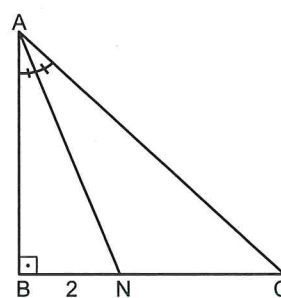
23.



$[DC] \parallel [AB]$
 $A(ABC) = ? \text{ cm}^2$

- A) 15 B) 20 C) 25 D) 30 E) 40

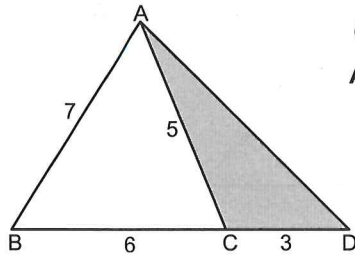
24.



$|AB| + |AC| = 16 \text{ cm}$
 $A(ABC) = ? \text{ cm}^2$

- A) 16 B) 15 C) 14 D) 12 E) 8

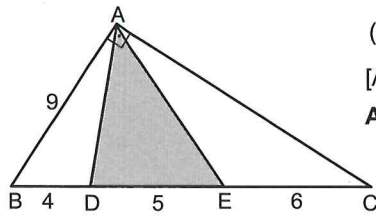
25.



$\triangle ABD \Rightarrow$
 $A(ACD) = ? \text{ cm}^2$

- A) $3\sqrt{6}$ B) $2\sqrt{6}$ C) $4\sqrt{6}$ D) $4\sqrt{3}$ E) $5\sqrt{3}$

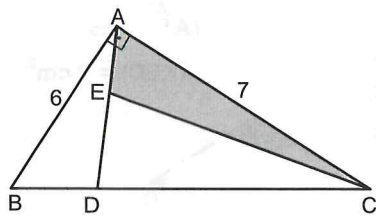
26.



$\triangle ABC \Rightarrow$
 $[AB] \perp [AC]$
 $A(ADE) = ? \text{ cm}^2$

- A) 12 B) 16 C) 18 D) 20 E) 24

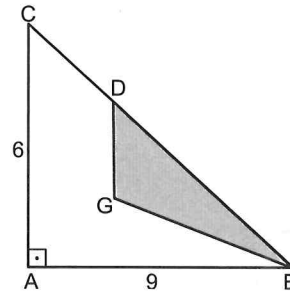
27.



$\triangle ABC \Rightarrow$
 $2|AE| = |ED|$
 $5|BD| = 2|DC|$
 $A(AEC) = ? \text{ cm}^2$

- A) 3 B) 4 C) 5 D) 6 E) 7

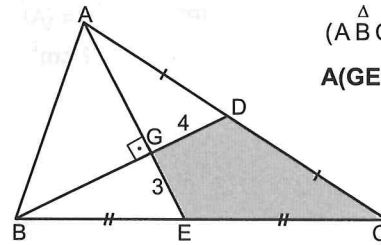
28.



$[GD] \parallel [AC]$
 $G, (\triangle ABC)$ ağırlık merkezi
 (G, is center of gravity, ABC)
 $A(GBD) = ? \text{ cm}^2$

- A) 12 B) 10 C) 9 D) 8 E) 6

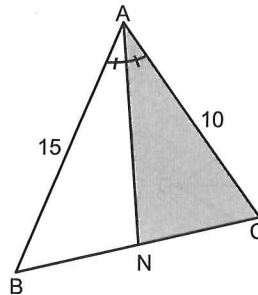
29.



$\triangle ABC \Rightarrow$
 $A(GECD) = ? \text{ cm}^2$

- A) 12 B) 16 C) 18 D) 24 E) 28

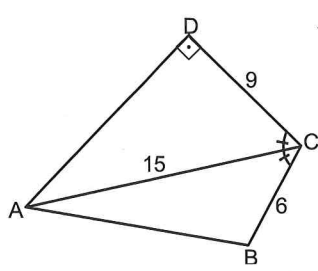
30.



$\triangle ABC \Rightarrow$
 $m(\hat{BAC}) = 60^\circ$
 $A(ANC) = ? \text{ cm}^2$

- A) $10\sqrt{3}$ B) $15\sqrt{3}$ C) $20\sqrt{3}$ D) 30 E) 40

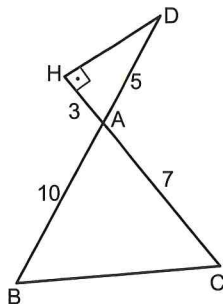
31.



$A(ABC) = ? \text{ cm}^2$

- A) 54 B) 48 C) 36 D) 32 E) 24

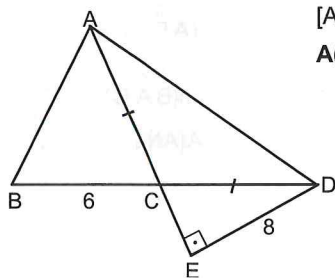
32.



$[BD] \cap [HC] = \{A\}$
 $A(ABC) = ? \text{ cm}^2$

- A) 35 B) 32 C) 30 D) 28 E) 25

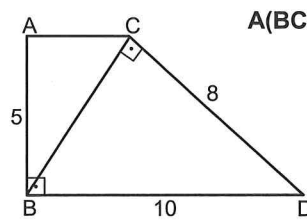
33.



$[AE] \cap [BD] = \{C\}$
 $A(ABC) = ? \text{ cm}^2$

- A) 48 B) 42 C) 36 D) 28 E) 24

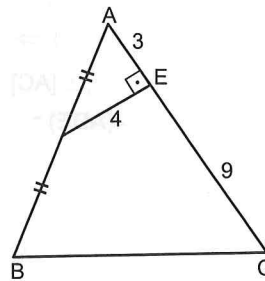
34.



$A(BCD) + A(ABC) = ? \text{ cm}^2$

- A) 33 B) 36 C) 39 D) 41 E) 42

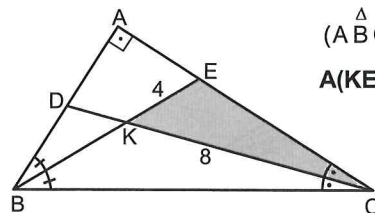
35.



$A(ABC) = ? \text{ cm}^2$

- A) 44 B) 48 C) 52 D) 56 E) 60

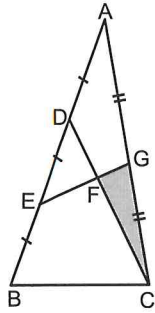
36.



$\triangle ABC \Rightarrow$
 $A(KEC) = ? \text{ cm}^2$

- A) $6\sqrt{2}$ B) $7\sqrt{2}$ C) $8\sqrt{2}$ D) $9\sqrt{2}$ E) $10\sqrt{2}$

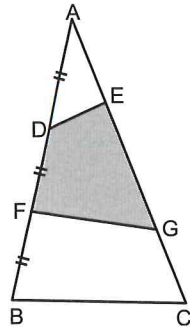
37.



$[EG] \cap [DC] = \{F\}$
 $\frac{A(FGC)}{A(ABC)} = ?$

- A) $\frac{1}{6}$ B) $\frac{1}{7}$ C) $\frac{1}{8}$ D) $\frac{1}{9}$ E) $\frac{1}{10}$

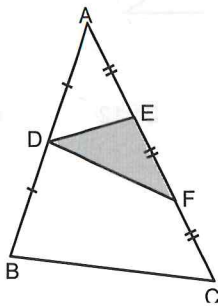
38.



$2|AE| = 2|GC| = |EG|$
 $\frac{A(FGED)}{A(ABC)} = ?$

- A) $\frac{5}{12}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{7}{12}$ E) $\frac{8}{15}$

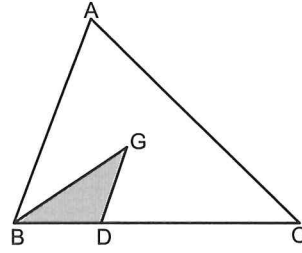
39.



$\frac{A(DEF)}{A(ABC)} = ?$

- A) $\frac{1}{6}$ B) $\frac{1}{5}$ C) $\frac{1}{4}$ D) $\frac{1}{3}$ E) $\frac{1}{7}$

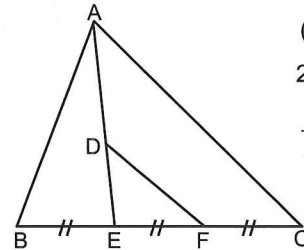
40.



$G, (\triangle ABC)$ ağırlık merkezi
 (G is center of gravity ABC)
 $[GD] \parallel [AB]$
 $\frac{A(GBD)}{A(ABC)} = ?$

- A) $\frac{1}{6}$ B) $\frac{1}{7}$ C) $\frac{1}{8}$ D) $\frac{1}{9}$ E) $\frac{1}{12}$

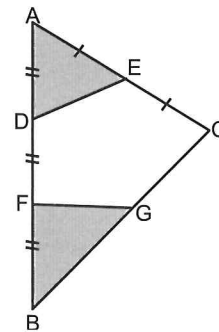
41.



$(\triangle EC) \Rightarrow$
 $2 \cdot |DE| = |AD|$
 $\frac{A(DEF)}{A(ABC)} = ?$

- A) $\frac{1}{6}$ B) $\frac{1}{7}$ C) $\frac{1}{8}$ D) $\frac{1}{9}$ E) $\frac{1}{10}$

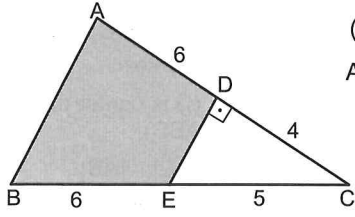
42.



$(\triangle BC) \Rightarrow$
 $2 \cdot |BG| = 3 \cdot |GC|$
 $\frac{A(ADE)}{A(FBG)} = ?$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{5}$ D) $\frac{4}{5}$ E) $\frac{5}{6}$

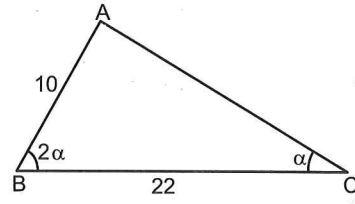
43.



$\triangle ABC \Rightarrow$
 $A(BEDA) = ? \text{ cm}^2$

- A) 28 B) 27 C) 25 D) 24 E) 18

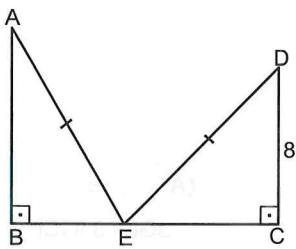
45.



$\hat{B} = 2 \cdot \hat{C}$
 $A(ABC) = ? \text{ cm}^2$

- A) 88 B) 84 C) 80 D) 76 E) 72

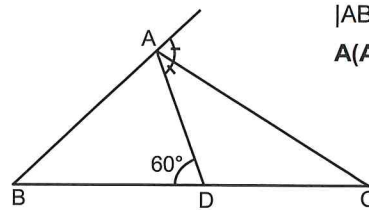
44.



$|AE| = |ED|$
 $|AB| = |DC|$
 $A(ABE) = ? \text{ cm}^2$

- A) 24 B) 20 C) 16 D) 12 E) 8

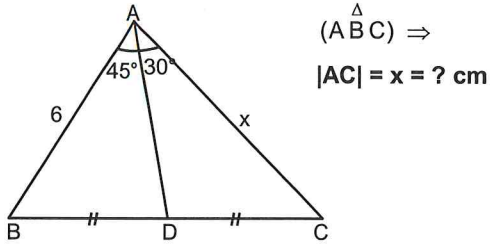
46.



$|AB| \cdot |DC| = 16 \text{ cm}^2$
 $A(ABC) = ? \text{ cm}^2$

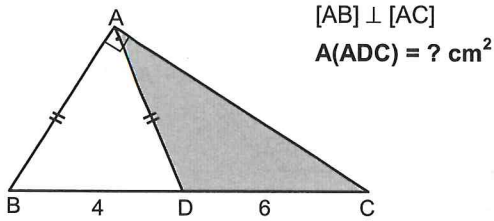
- A) $4\sqrt{3}$ B) $7\sqrt{3}$ C) $8\sqrt{3}$ D) $12\sqrt{3}$ E) $16\sqrt{3}$

47.



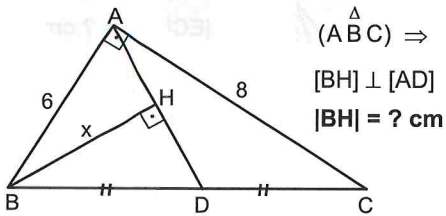
- A) $9\sqrt{2}$ B) 12 C) 10 D) $8\sqrt{2}$ E) $6\sqrt{2}$

48.



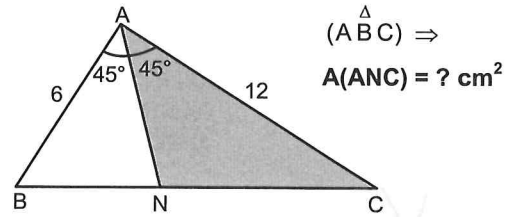
- A) 30 B) 25 C) 24 D) 20 E) 12

49.



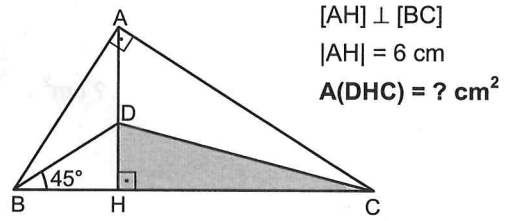
- A) 4,8 B) 4,6 C) 4,4 D) 4,2 E) 3,8

50.



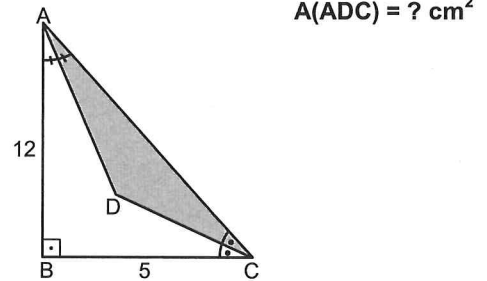
- A) 32 B) 28 C) 24 D) 20 E) 16

51.



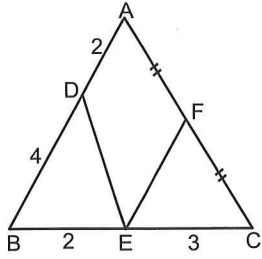
- A) 24 B) 18 C) 16 D) 12 E) 8

52.



- A) 12 B) 13 C) 14 D) 10 E) 9

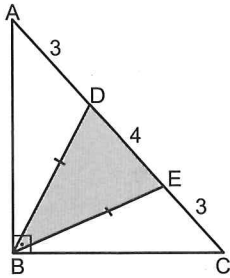
53.



$\triangle ABC \Rightarrow$
 $|AB| = |AC|$
 $\frac{A(DBE)}{A(FEC)} = ?$

- A) $\frac{5}{6}$ B) $\frac{6}{7}$ C) $\frac{7}{8}$ D) $\frac{8}{9}$ E) $\frac{9}{10}$

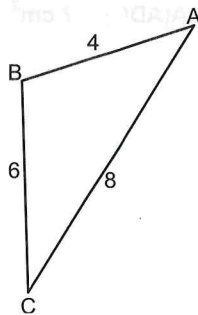
54.



$\triangle ABC \Rightarrow$
 $A(DBE) = ? \text{ cm}^2$

- A) 12 B) 10 C) 9 D) 8 E) 7

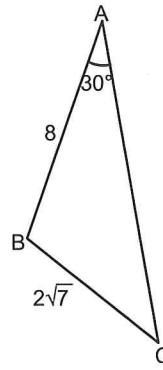
55.



$A(ABC) = ? \text{ cm}^2$

- A) $3\sqrt{15}$ B) $2\sqrt{15}$ C) $3\sqrt{10}$
 D) $2\sqrt{10}$ E) $8\sqrt{5}$

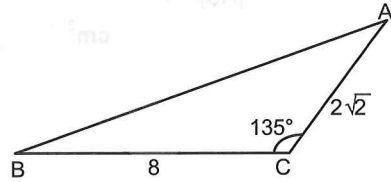
56.



$A(ABC) = ? \text{ cm}^2$

- A) $16\sqrt{3}$ B) $15\sqrt{3}$ C) $12\sqrt{3}$ D) 16 E) 12

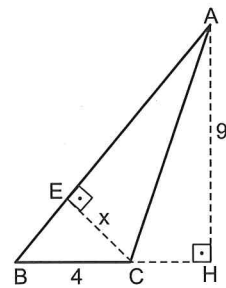
57.



$A(ABC) = ? \text{ cm}^2$

- A) 12 B) 11 C) 10 D) 9 E) 8

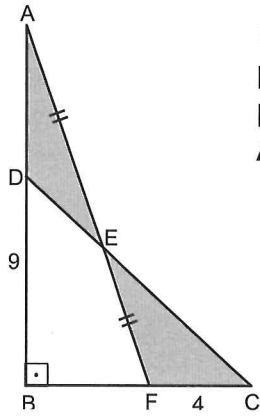
58.



$|AB| = 12 \text{ cm}$
 $|EC| = x = ? \text{ cm}$

- A) 2 B) 2,5 C) 2,8 D) 3 E) 3,5

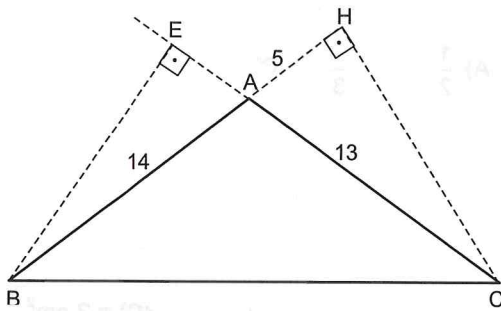
59.



$(\triangle ABC), (\triangle DBC) \Rightarrow$
 $|DB| = 9 \text{ cm}$
 $|FC| = 4 \text{ cm}$
 $A(\triangle ADE) + A(\triangle EFC) = ? \text{ cm}^2$

- A) 36 B) 24 C) 18 D) 16 E) 12

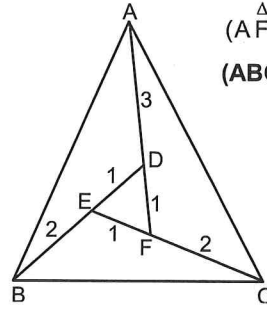
60.



$[EC] \cap [BH] = \{A\} \Rightarrow A(\triangle ABC) = ? \text{ cm}^2$

- A) 68 B) 72 C) 76 D) 78 E) 84

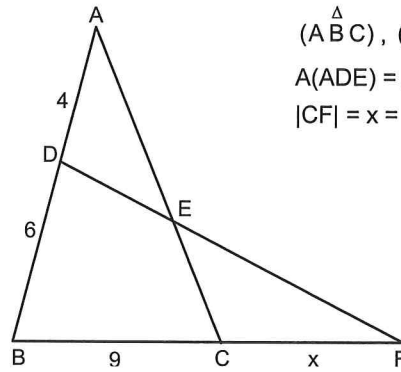
61.



$(\triangle AFC), (\triangle BEC), (\triangle ADB) \Rightarrow$
 $A(\triangle ABC) = ? \text{ cm}^2$

- A) $6\sqrt{3}$ B) $7\sqrt{3}$ C) $8\sqrt{3}$
 D) $9\sqrt{3}$ E) $11\sqrt{3}$

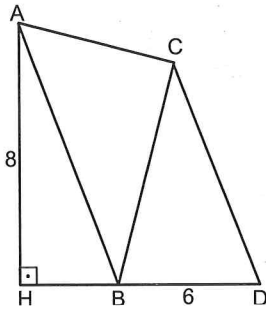
62.



$(\triangle ABC), (\triangle DBF) \Rightarrow$
 $A(\triangle ADE) = A(\triangle ECF)$
 $|CF| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 8

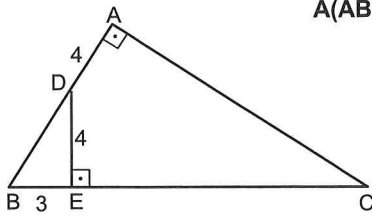
63.



$[AB] \parallel [CD]$
 $[AH] \perp [HD]$
 $A(ABC) = ? \text{ cm}^2$

- A) 24 B) 26 C) 32 D) 42 E) 48

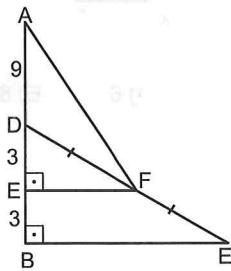
64.



$A(ABC) = ? \text{ cm}^2$

- A) 48 B) 54 C) 60 D) 62 E) 64

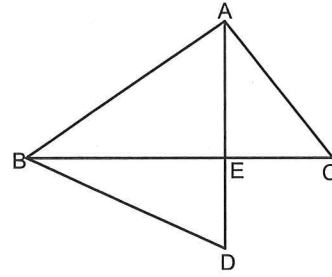
65.



$(\triangle AEF), (\triangle DBE) \Rightarrow$
 $A(\triangle ADF) = 18 \text{ cm}^2$
 $A(\triangle DBE) = ? \text{ cm}^2$

- A) 24 B) 28 C) 32 D) 36 E) 40

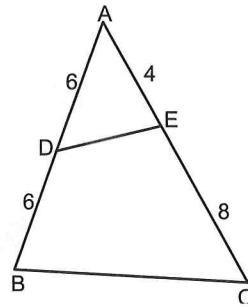
66.



$2 \cdot |BE| = 5 \cdot |EC|$
 $|AE| = 2 \cdot |ED|$
 $A(\triangle AEC) = 4 \text{ cm}^2$
 $A(\triangle BED) = ? \text{ cm}^2$

- A) 4 B) 5 C) 6 D) 7 E) 8

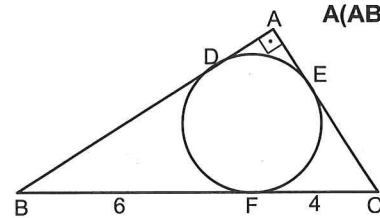
67.



$\frac{A(\triangle ADE)}{A(\triangle ABC)} = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{1}{4}$ D) $\frac{1}{5}$ E) $\frac{1}{6}$

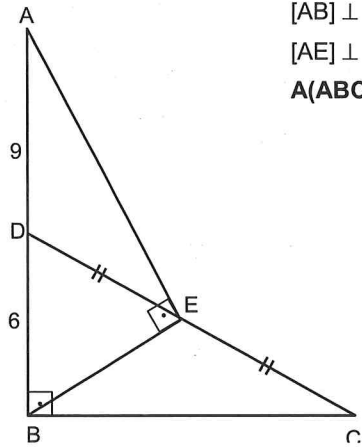
68.



$A(ABC) = ? \text{ cm}^2$

- A) 30 B) 28 C) 24 D) 20 E) 18

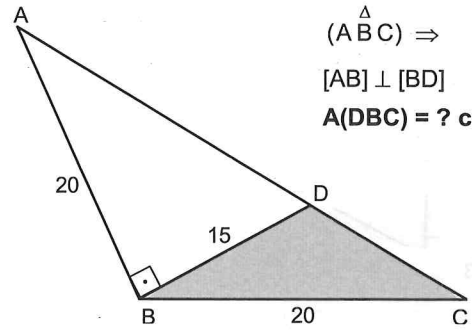
69.



$[AB] \perp [BC]$
 $[AE] \perp [EB]$
 $A(ABCE) = ? \text{ cm}^2$

- A) 63 B) 64 C) 72 D) 75 E) 80

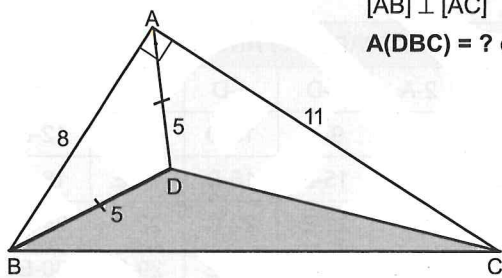
71.



$\triangle ABC \Rightarrow$
 $[AB] \perp [BD]$
 $A(DBC) = ? \text{ cm}^2$

- A) 48 B) 42 C) 40 D) 38 E) 36

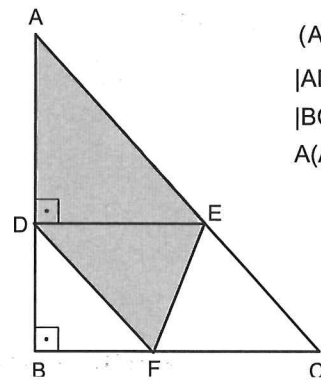
70.



$[AB] \perp [AC]$
 $A(DBC) = ? \text{ cm}^2$

- A) 10 B) 12 C) 16 D) 20 E) 24

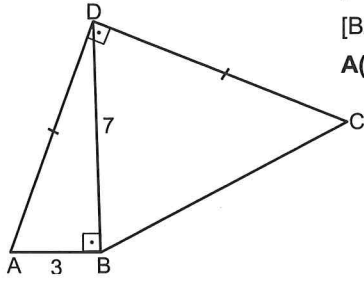
72.



$\triangle ABC \Rightarrow$
 $|AD| = 8 \text{ cm}$
 $|BC| = 10 \text{ cm}$
 $A(ADFE) = ? \text{ cm}^2$

- A) 80 B) 60 C) 50 D) 40 E) 30

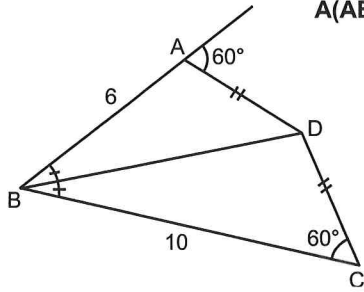
73.



$[DA] \perp [DC]$
 $[BA] \perp [BD]$
 $A(ABCD) = ? \text{ cm}^2$

- A) 49 B) 48 C) 44 D) 39 E) 35

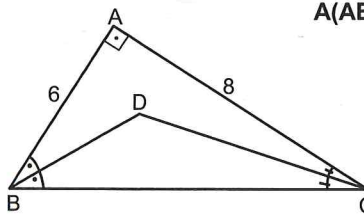
74.



$A(ABD) + A(DBC) = ?$

- A) $16\sqrt{3}$ B) $15\sqrt{3}$ C) $12\sqrt{3}$
 D) $9\sqrt{3}$ E) $8\sqrt{3}$

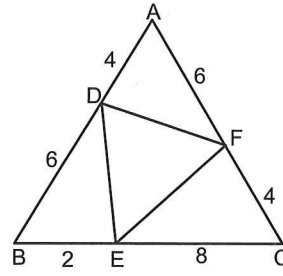
75.



$A(ABDC) = ? \text{ cm}^2$

- A) 8 B) 10 C) 12 D) 14 E) 16

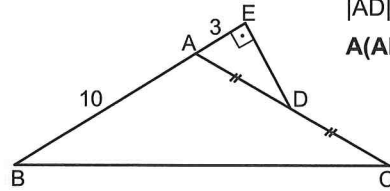
76.



(ABC) eşkenar üçgen
 (ABC is an equilateral triangle)
 $A(DEF) = ? \text{ cm}^2$

- A) $6\sqrt{3}$ B) $7\sqrt{3}$ C) $8\sqrt{3}$
 D) $9\sqrt{3}$ E) $10\sqrt{3}$

77.



$[EB] \cap [AC] = \{A\}$
 $|AB| = |AC|$
 $|AD| = |DC|$
 $A(ABC) = ? \text{ cm}^2$

- A) 60 B) 50 C) 40 D) 35 E) 30

CEVAPLAR / ANSWERS

1-C	2-A	3-D	4-D	5-E	6-B
7-D	8-B	9-C	10-D	11-A	12-E
13-C	14-A	15-B	16-D	17-E	18-A
19-D	20-A	21-E	22-C	23-B	24-A
25-A	26-C	27-C	28-E	29-D	30-B
31-C	32-D	33-E	34-A	35-B	36-C
37-D	38-A	39-A	40-D	41-D	42-E
43-B	44-C	45-A	46-A	47-E	48-E
49-A	50-C	51-B	52-B	53-D	54-B
55-A	56-C	57-E	58-D	59-C	60-E
61-A	62-D	63-A	64-B	65-A	66-B
67-E	68-C	69-A	70-A	71-B	72-D
73-E	74-A	75-D	76-C	77-C	

ÜNİTE 1

UNIT 1

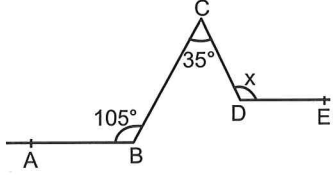
ÜÇGENLER YÖS SORULARI

TRIANGLES YÖS QUESTIONS

ALİŞTIRMALAR

EXERCISES

1.

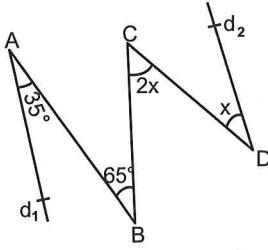


[BA // [DE

$$m(\hat{CDE}) = x = ?$$

- A) 80 B) 95 C) 100 D) 110 E) 115

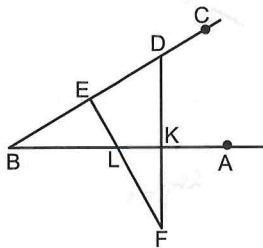
2.

 $d_1 // d_2$

$$x = ?$$

- A) 18 B) 24 C) 30 D) 36 E) 42

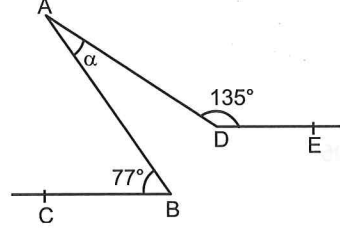
3.



$$\triangle EFD \cong \triangle ABC = ?$$

- A) {E, D, L, K} B) {[ED], L, K}
 C) {E, K, [LK]} D) {[ED], [LK]}
 E) {[ED], [LK], F}

4.



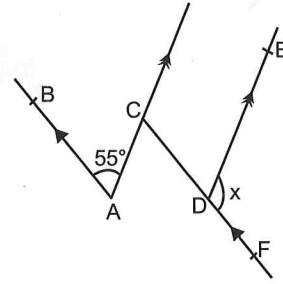
[BC // [DE

$$m(\hat{BAD}) = \alpha$$

$$\alpha = ?$$

- A) 20 B) 26 C) 28 D) 30 E) 32

5.



[AB // [CF

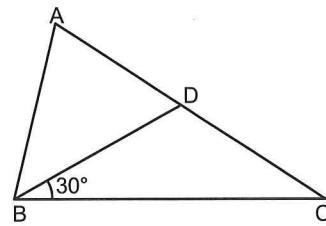
[AC // [DE

$$m(\hat{EDF}) = x$$

$$x = ?$$

- A) 130 B) 125 C) 120 D) 115 E) 110

6.



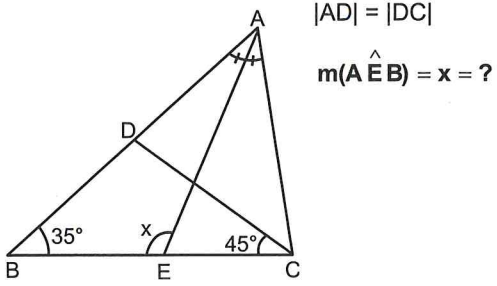
|AD| = |AB|

|AC| = |BC|

$$m(\hat{ACB}) = ?$$

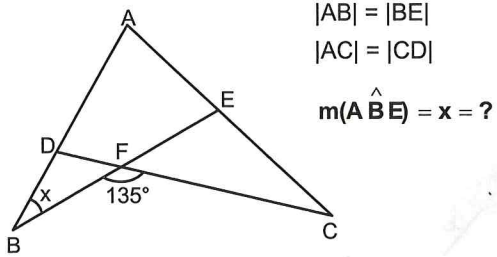
- A) 80 B) 70 C) 55 D) 50 E) 20

7.



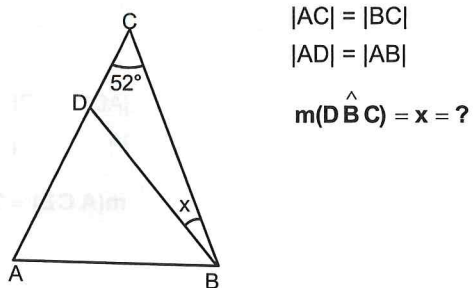
- A) 100 B) 105 C) 110 D) 115 E) 120

8.



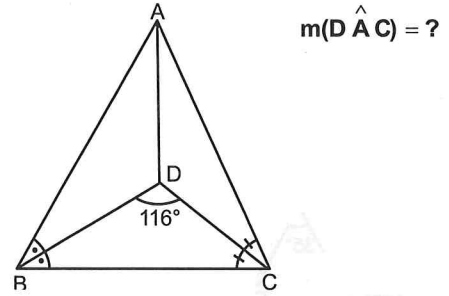
- A) 28 B) 30 C) 32 D) 42 E) 48

9.



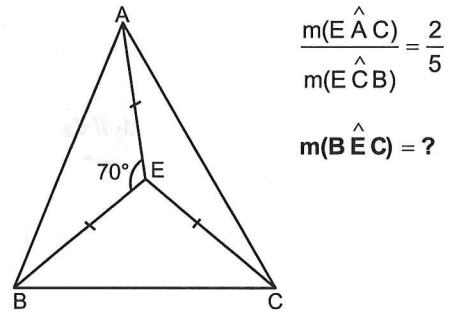
- A) 5 B) 6 C) 8 D) 11 E) 15

10.



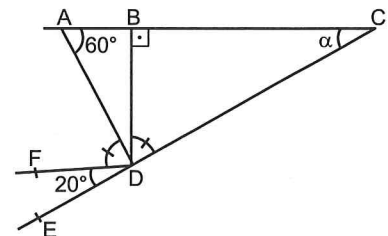
- A) 25 B) 26 C) 50 D) 52 E) 64

11.



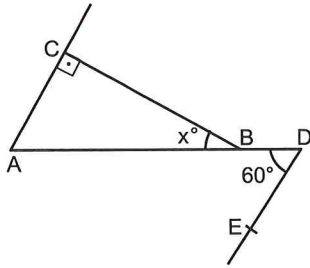
- A) 130 B) 125 C) 120 D) 110 E) 100

12.



- A) 10 B) 15 C) 20 D) 25 E) 30

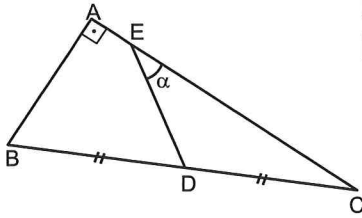
13.



$[AC \parallel [DE$
 $m(\hat{A}BC) = x$
 $x = ?$

- A) 20 B) 30 C) 45 D) 50 E) 60

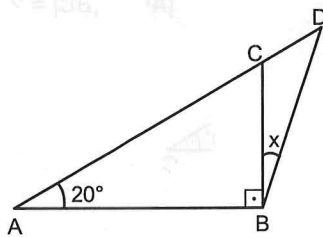
14.



$|AB| = |ED|$
 $|BD| = |DC|$
 $m(\hat{D}EC) = ?$

- A) 20 B) 25 C) 30 D) 45 E) 60

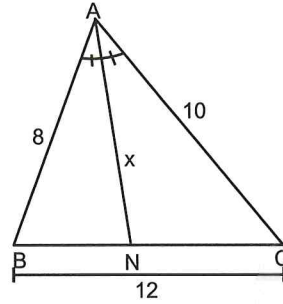
15.



$|AC| = 2 \cdot |BD|$
 $x = ?$

- A) 45 B) 35 C) 30 D) 20 E) 15

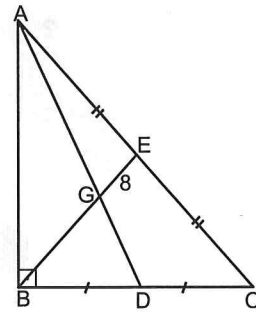
16.



$|AN| = x \text{ cm}$
 $x = ?$

- A) $\frac{9}{2}$ B) $\frac{15}{2}$ C) $\frac{14}{3}$ D) $\frac{20}{3}$ E) $\frac{15}{4}$

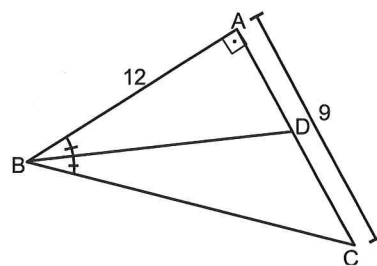
17.



$|AC| = ? \text{ cm}$

- A) 16 B) 24 C) 32 D) 48 E) 56

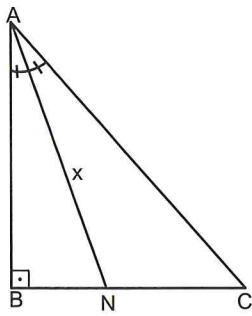
18.



$|AD| = ? \text{ cm}$

- A) 4 B) 6 C) 8 D) 10 E) 12

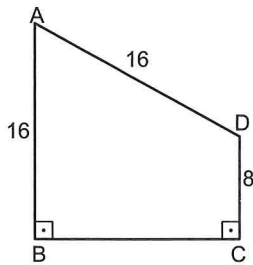
19.



$[AB] \perp [BC]$
 $|AB| = 3 \text{ cm}$
 $|AC| = 5 \text{ cm}$
 $|AN| = x = ?$

- A) $\frac{3}{2}$ B) $\frac{3\sqrt{5}}{2}$ C) $\frac{3\sqrt{3}}{2}$ D) $\sqrt{5}$ E) $\sqrt{3}$

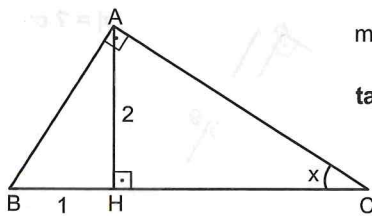
20.



$m(\hat{B}AD) = ?$

- A) 30 B) 40 C) 50 D) 60 E) 70

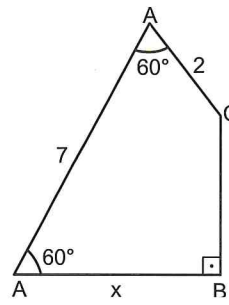
21.



$m(\hat{A}CB) = x$
 $\tan x = \frac{|AB|}{|AC|} = ?$

- A) $\frac{1}{2}$ B) 2 C) $\frac{\sqrt{5}}{2}$ D) $\frac{\sqrt{5}}{5}$ E) $\sqrt{3}$

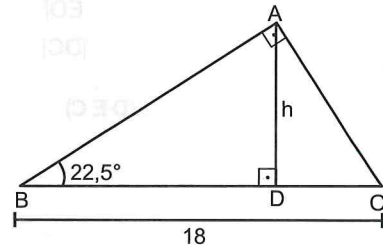
22.



$[CB] \perp [AB]$
 $|AB| = x = ?$

- A) $\frac{7}{2}$ B) 4 C) $\frac{9}{2}$ D) 5 E) $\frac{11}{2}$

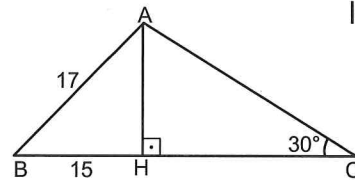
23.



$|AD| = h$
 $h = ? \text{ cm}$

- A) $9\sqrt{2}$ B) $\frac{9\sqrt{2}}{2}$ C) $\frac{9\sqrt{2}}{4}$ D) $\frac{81}{4}$ E) $\frac{9}{4}$

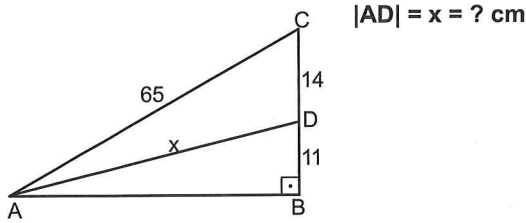
24.



$|AC| + |BC| = ?$

- A) $29 + 6\sqrt{3}$ B) $31 + 8\sqrt{3}$ C) $33 + 8\sqrt{3}$
 D) 29 E) 33

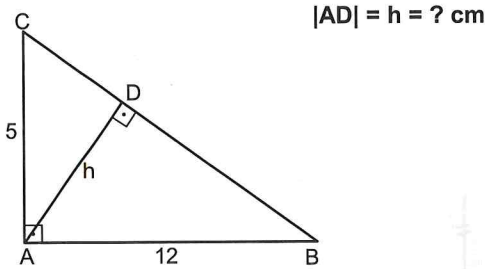
25.



$|AD| = x = ?$ cm

- A) 57 B) 58 C) 59 D) 60 E) 61

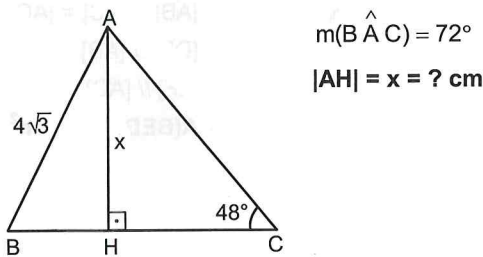
26.



$|AD| = h = ?$ cm

- A) $\frac{70}{12}$ B) $\frac{65}{12}$ C) $\frac{60}{13}$ D) $\frac{55}{7}$ E) $\frac{50}{12}$

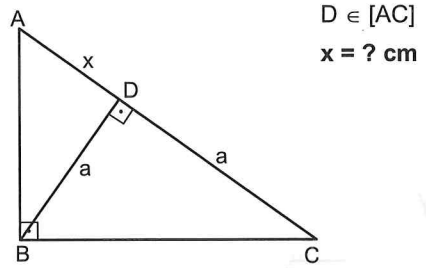
27.



$m(\hat{BAC}) = 72^\circ$
 $|AH| = x = ?$ cm

- A) 6 B) 5 C) 4 D) 3 E) 2

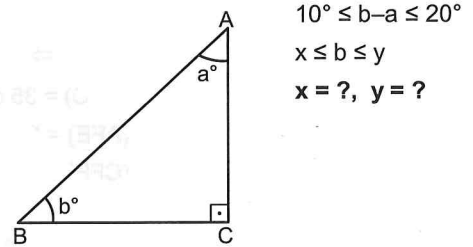
28.



$D \in [AC]$
 $x = ?$ cm

- A) $\frac{\sqrt{a}}{2}$ B) \sqrt{a} C) $\frac{a}{2}$ D) a E) $2a$

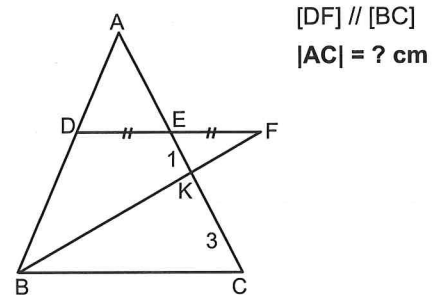
29.



$10^\circ \leq b - a \leq 20^\circ$
 $x \leq b \leq y$
 $x = ?, y = ?$

- A) 30, 60 B) 40, 50 C) 45, 55
D) 50, 55 E) 55, 60

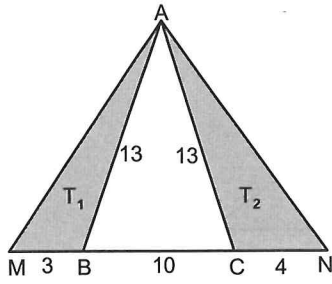
30.



$[DF] \parallel [BC]$
 $|AC| = ?$ cm

- A) 5 B) $\frac{11}{2}$ C) 6 D) $\frac{13}{2}$ E) 7

31.



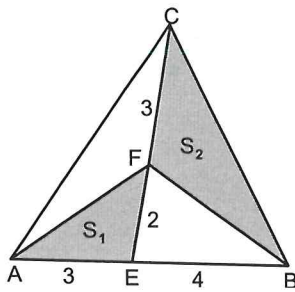
$$A(\triangle AMB) = T_1$$

$$A(\triangle ANC) = T_2$$

$$T_1 + T_2 = ?$$

- A) 18 B) 24 C) 31 D) 36 E) 42

32.



$$(\triangle ABC) \Rightarrow$$

$$A(\triangle ABC) = 35 \text{ cm}^2$$

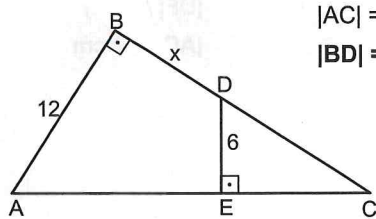
$$A(\triangle AFE) = S_1$$

$$A(\triangle CFB) = S_2$$

$$S_1 + S_2 = ?$$

- A) 16 B) 17 C) 18 D) 19 E) 20

33.

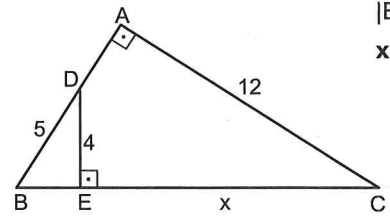


$$|AC| = 20 \text{ cm}$$

$$|BD| = x = ? \text{ cm}$$

- A) 6 B) 7 C) 8 D) 9 E) 10

34.

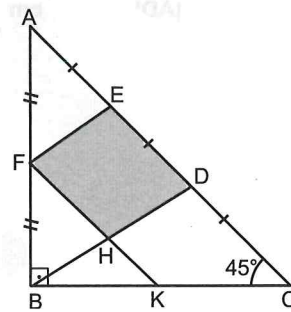


$$|EC| = x \Rightarrow$$

$$x = ?$$

- A) 12 B) 13 C) 15 D) 18 E) 19

35.

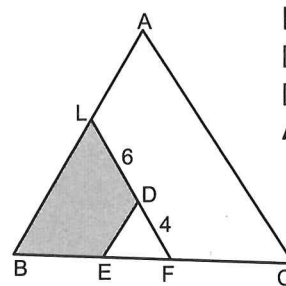


$$[FK] \parallel [AC]$$

$$\frac{A(\triangle ABC)}{A(\triangle DEFH)} = ?$$

- A) $\frac{3}{2}$ B) $\frac{5}{2}$ C) $\frac{7}{3}$ D) 2 E) 3

36.



$$|AB| = |BC| = |AC|$$

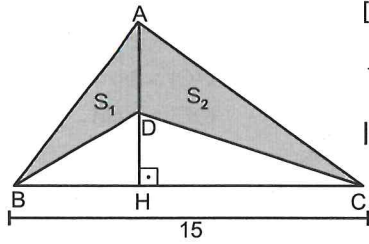
$$[DE] \parallel [AB]$$

$$[LF] \parallel [AC]$$

$$A(\triangle BEDL) = ? \text{ cm}^2$$

- A) $21\sqrt{3}$ B) $79\sqrt{3}$ C) $94\sqrt{3}$
 D) $\frac{79\sqrt{3}}{4}$ E) $\frac{105\sqrt{3}}{4}$

37.



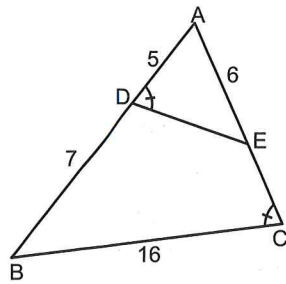
$[AH] \perp [BC]$

$$\frac{S_1}{S_2} = \frac{1}{2}$$

$|BH| = ? \text{ cm}$

- A) 3 B) 5 C) 6 D) 9 E) 10

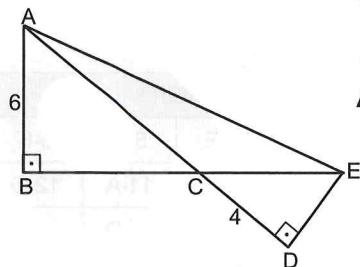
38.



$|DE| + |EC| = ? \text{ cm}$

- A) 10 B) 11 C) 12 D) 14 E) 16

39.



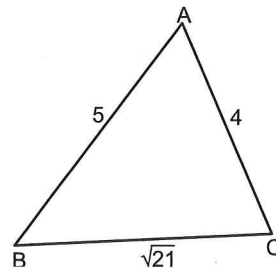
$C \in [AB]$

$$A(\triangle CDE) = 6 \text{ cm}^2$$

$A(\triangle ACE) = ? \text{ cm}^2$

- A) 10 B) 12 C) 15 D) 18 E) 20

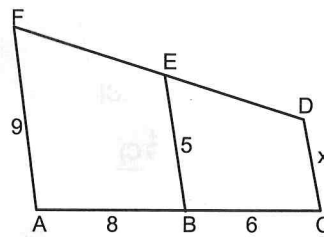
40.



$A(\triangle ABC) = ? \text{ cm}^2$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$
 D) $4\sqrt{3}$ E) $5\sqrt{3}$

41.



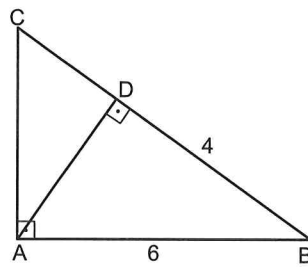
$[AF] \parallel [BE] \parallel [CD]$

$|DC| = x \text{ cm}$

$x = ? \text{ cm}$

- A) $\frac{27}{7}$ B) $\frac{7}{2}$ C) $\frac{5}{2}$ D) 3 E) 2

42.



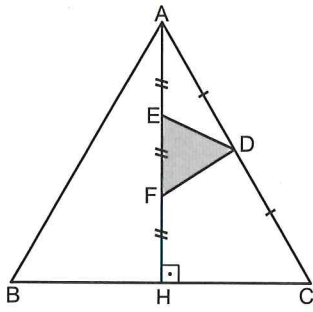
$(\triangle ABC)$ üçgen

$(\triangle ABC)$ is a triangle

$A(\triangle ABC) = ? \text{ cm}^2$

- A) 12 B) $7\sqrt{5}$ C) $9\sqrt{5}$ D) $4\sqrt{5}$ E) $3\sqrt{5}$

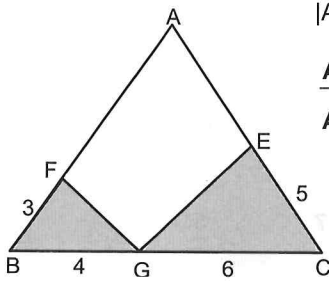
43.



$|AB| = |AC| = |BC|$
 $|AE| = |EF| = |FH|$
 $|AD| = |DC|$
 $|BH| = 2 \text{ cm}$
 $A(\triangle DEF) = ? \text{ cm}^2$

- A) $\frac{\sqrt{3}}{4}$ B) 6 C) $4\sqrt{3}$ D) $\frac{\sqrt{3}}{2}$ E) $\frac{\sqrt{3}}{3}$

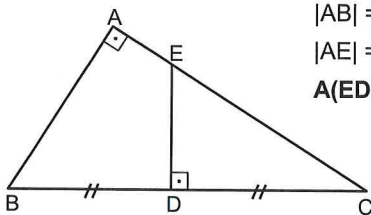
44.



$|AB| = |AC|$
 $\frac{A(\triangle EGC)}{A(\triangle BFG)} = ?$

- A) $\frac{2}{5}$ B) $\frac{3}{5}$ C) 1 D) $\frac{5}{3}$ E) $\frac{5}{2}$

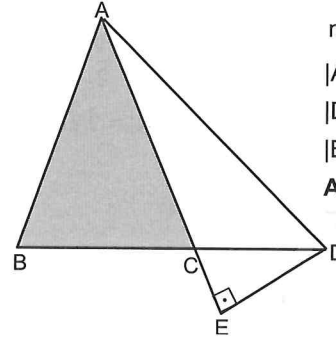
45.



$|AB| = 12 \text{ cm}$
 $|AE| = 5 \text{ cm}$
 $A(\triangle EDC) = ? \text{ cm}^2$

- A) 39 B) 40 C) 60 D) 68 E) 70

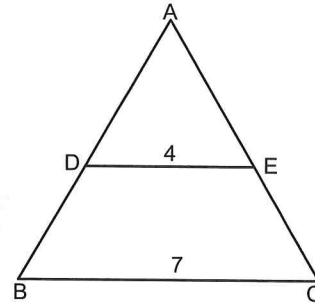
46.



$m(\hat{AED}) = 90^\circ$
 $|AC| = 8 \text{ cm}$
 $|DE| = 4 \text{ cm}$
 $|BC| = 2|CD|$
 $A(\triangle ABC) = ? \text{ cm}^2$

- A) 48 B) 32 C) 30 D) 26 E) 24

47.



$\frac{A(\triangle ADE)}{A(\text{BCED})} = ?$

- A) $\frac{16}{49}$ B) $\frac{16}{33}$ C) $\frac{16}{31}$ D) $\frac{15}{23}$ E) $\frac{14}{23}$

CEVAPLAR / ANSWERS

1-D	2-C	3-B	4-E	5-B	6-E
7-E	8-B	9-B	10-B	11-A	12-D
13-B	14-C	15-C	16-D	17-D	18-A
19-B	20-D	21-A	22-C	23-B	24-B
25-E	26-C	27-A	28-D	29-D	30-C
31-E	32-C	33-A	34-A	35-E	36-A
37-B	38-C	39-C	40-E	41-E	42-C
43-E	44-E	45-A	46-B	47-B	

ÜNİTE 2

UNIT 2

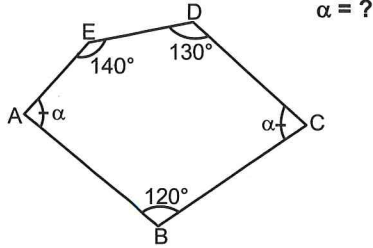
ÇOKGEN VE DÖRTGENLER

POLYGONS AND QUADRILATERALS

★ ÇOKGENLER.....	109-113
POLYGONS	
★ DÖRTGENLER	114-120
QUADRILATERALS	
★ PARALELKENAR	121-133
PARALLELOGRAM	
★ EŞKENAR DÖRTGEN	134-141
EQUILATERAL QUADRANGLE	
★ DİKDÖRTGEN	142-153
RECTANGLE	
★ KARE	154-165
SQUARE	
★ YAMUK	166-180
TRAPEZOID	
★ DELTOİD	181-185
DELTOID	
★ DÖRTGENLER YÖS SORULARI	186-190
QUADRILATERALS YÖS QUESTIONS	

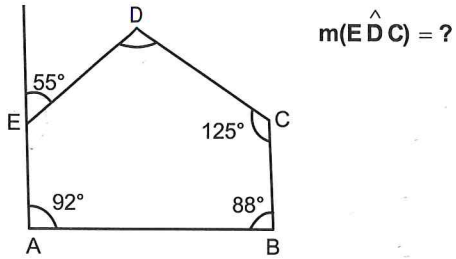
ÜNİTE 2
UNIT 2
ÇOKGENLER
POLYGONS
BÖLÜM 1
CHAPTER 1

1.



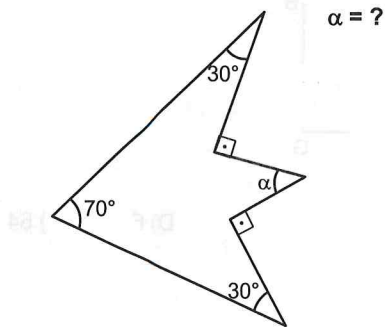
- A) 120 B) 100 C) 85 D) 80 E) 75

2.



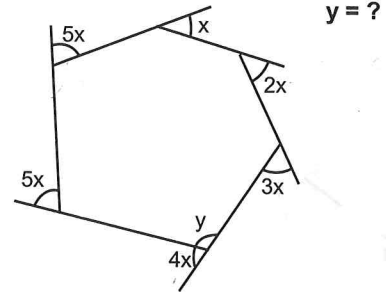
- A) 110 B) 105 C) 100 D) 90 E) 85

3.



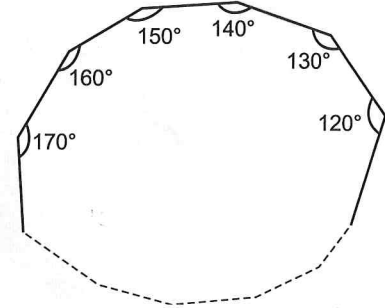
- A) 70 B) 60 C) 50 D) 40 E) 30

4.



- A) 108 B) 110 C) 120 D) 130 E) 140

5.



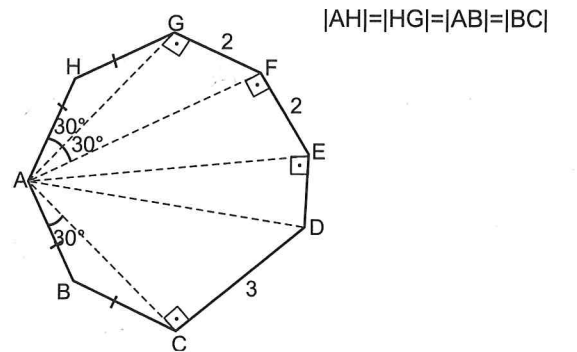
170, 160, 150, ... düzgün azalan açılar
(Uniformly decreasing angles)

Çokgen kenar sayısı kaçtır?

(What is the number of polygon edges?)

- A) 7 B) 8 C) 9 D) 10 E) 12

6.

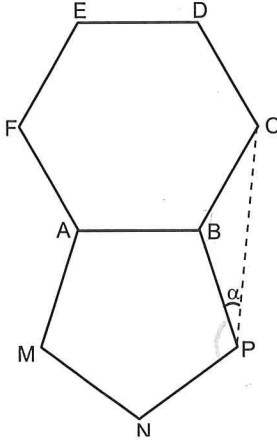


$$m(\hat{HAG}) = m(\hat{GAF}) = m(\hat{BAC}) = 30^\circ$$

Ç(ABCDEFGH) = ? (Polygon environment)

- A) 9 B) 11 C) 13 D) 15 E) 16

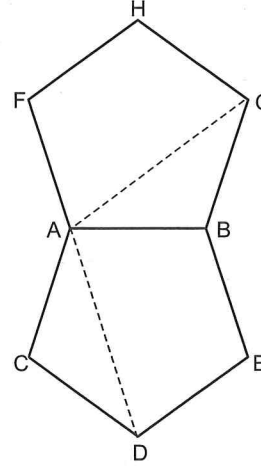
7.



Düzgün altıgen ve düzgün beşgen
(regular hexagonal and pentagonal properly)
 $\alpha = ?$

- A) 20 B) 22 C) 24 D) 28 E) 32

9.

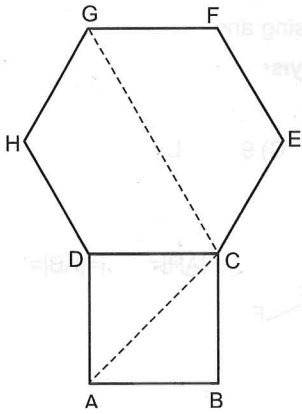


Düzgün beşgenler
(regular pentagons)

$m(\hat{GAD}) = ?$

- A) 108 B) 105 C) 110 D) 100 E) 120

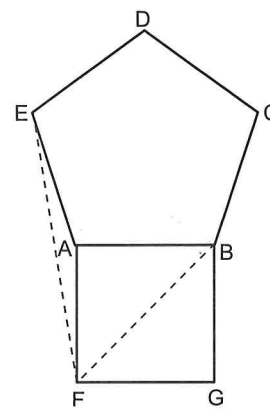
8.



Düzgün altıgen ve kare
(regular hexagon and square)
 $m(\hat{GCA}) = ?$

- A) 120 B) 112 C) 110 D) 108 E) 105

10.

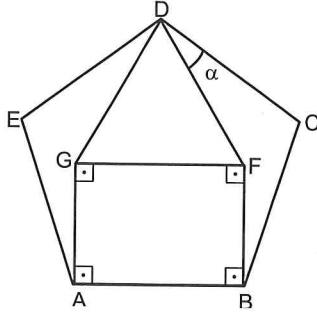


Düzgün beşgen ve kare
(regular pentagon and square)

$m(\hat{EFB}) = ?$

- A) 48 B) 54 C) 58 D) 60 E) 64

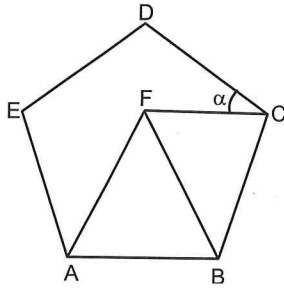
11.



(ABCDE) düzgün beşgen
(ABCDE is a regular pentagon)
(DGF) eşkenar üçgen
(DGF is an equilateral triangle)
 $m(\hat{FDC}) = \alpha = ?$

- A) 30 B) 24 C) 20 D) 18 E) 6

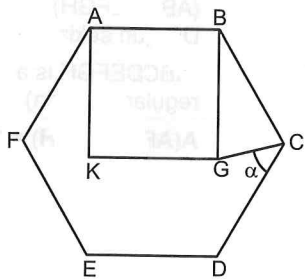
12.



(ABCDE) düzgün beşgen
(ABCDE is a regular pentagon)
(FAB) eşkenar üçgen
(FAB is an equilateral triangle)
 $m(\hat{FCD}) = \alpha = ?$

- A) 40 B) 42 C) 44 D) 48 E) 66

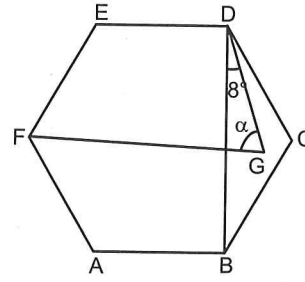
13.



(ABCDEF) düzgün altıgen
(regular hexagon)
(KABG) kare
(KABG is a square)
 $m(\hat{GCD}) = \alpha = ?$

- A) 30 B) 40 C) 45 D) 55 E) 60

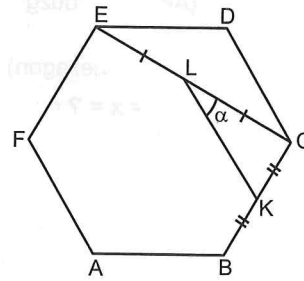
14.



(ABCDEF) düzgün altıgen
(regular hexagon)
 $|DB| = |FG|$
 $m(\hat{BDG}) = 8^\circ$
 $m(\hat{FGD}) = \alpha = ?$

- A) 68 B) 70 C) 72 D) 78 E) 82

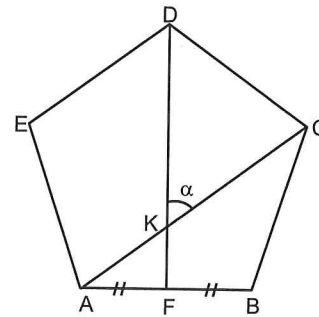
15.



(ABCDEF) düzgün altıgen
(regular hexagon)
 $|EL| = |LC|$
 $|BK| = |KC|$
 $m(\hat{KLC}) = \alpha = ?$

- A) 30 B) 36 C) 40 D) 42 E) 48

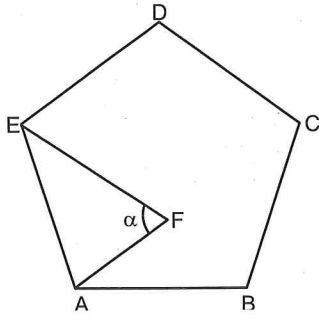
16.



(ABCDE) düzgün beşgen
(ABCDE is a regular pentagon)
 $|AF| = |FB|$
 $m(\hat{DKC}) = \alpha = ?$

- A) 45 B) 48 C) 50 D) 54 E) 90

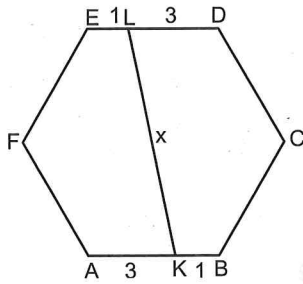
17.



(ABCDE) düzgün beşgen
(ABCDE is a regular pentagon)
[AF] // [ED]
[EF] // [CD]
 $m(\hat{A}FE) = \alpha = ?$

- A) 36 B) 48 C) 52 D) 54 E) 72

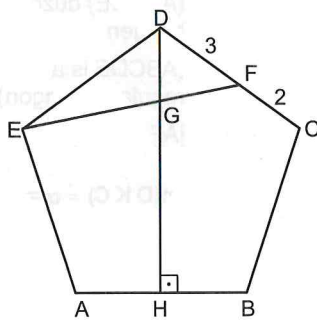
18.



(ABCDEF) düzgün altıgen
(regular hexagon)
 $|KL| = x = ?$ cm

- A) $2\sqrt{7}$ B) $4\sqrt{2}$ C) $4\sqrt{3}$ D) $2\sqrt{13}$ E) $5\sqrt{2}$

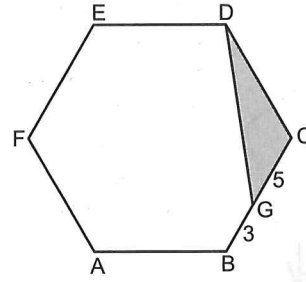
19.



(ABCDE) düzgün beşgen
(ABCDE is a regular pentagon)
[DH] \perp [AB]
 $\frac{|EG|}{|GF|} = ?$

- A) $\frac{4}{3}$ B) $\frac{5}{3}$ C) 2 D) $\frac{7}{3}$ E) $\frac{8}{3}$

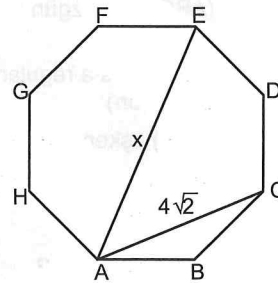
20.



(ABCDEF) düzgün altıgen
(regular hexagon)
 $A(\hat{D}GC) = ?$ cm²

- A) $10\sqrt{3}$ B) $12\sqrt{3}$ C) 18 D) 24 E) $16\sqrt{3}$

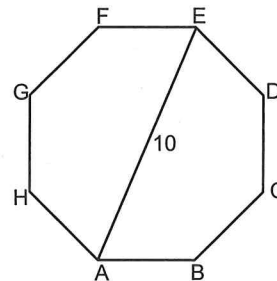
21.



(ABCDEFGH) Düzgün sekizgen
(ABCDEFGH is a regular octagon)
 $|AE| = x = ?$ cm

- A) 8 B) 10 C) 12 D) 14 E) 16

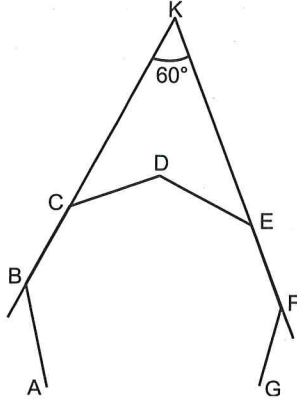
22.



(ABCDEFGH) Düzgün sekizgen
(ABCDEFGH is a regular octagon)
 $A(ABCDEFGH) = ?$

- A) $40\sqrt{2}$ B) $40\sqrt{3}$ C) $50\sqrt{2}$
D) $50\sqrt{3}$ E) 100

23.



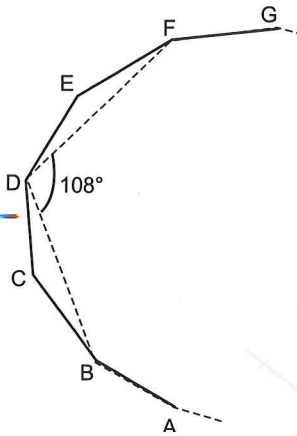
ABCDEF... n kenarlı
düzgün çokgen
(ABCDEF is a regular
polygon with n sides)

$$m(\hat{BKF}) = 60^\circ$$

$$n = ?$$

- A) 6 B) 8 C) 9 D) 10 E) 12

24.



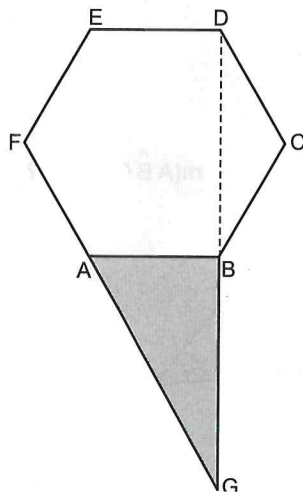
ABCDEFG... n
kenarlı düzgün
çokgen
(ABCDEFG is a
regular polygon with
n sides)

$$m(\hat{FDB}) = 108^\circ$$

$$n = ?$$

- A) 15 B) 14 C) 12 D) 10 E) 8

25.



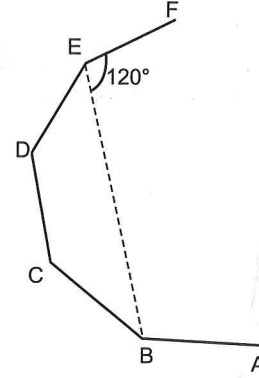
(ABCDEF) düzgün
altıgen
(ABCDEF is a regular
hexagon)

$$|DG| = 12 \text{ cm}$$

$$A(\hat{A}BG) = ? \text{ cm}^2$$

- A) $6\sqrt{3}$ B) $8\sqrt{3}$ C) 12 D) 24 E) $12\sqrt{3}$

26.

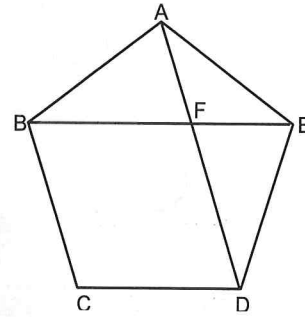


ABCDEF... n kenarlı
düzgün çokgen
(ABCDEF... is a
regular polygon with
n sides)

$$n = ?$$

- A) 8 B) 9 C) 10 D) 11 E) 12

27.



(ABCDE) düzgün beşgen
(ABCDE is a regular
pentagon)

$$[AD] \cap [BE] = \{F\}$$

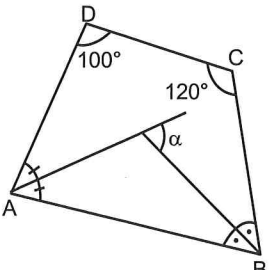
$$\frac{|BF| + |FD|}{|BA| + |AE| + |ED|} = ?$$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{4}{5}$ E) $\frac{5}{6}$

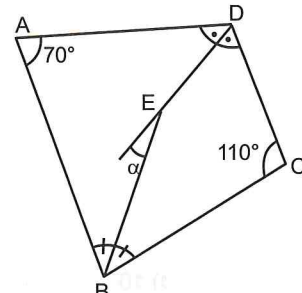
CEVAPLAR / ANSWERS

1-E	2-A	3-C	4-A	5-B	6-E
7-C	8-E	9-A	10-B	11-B	12-B
13-C	14-A	15-A	16-D	17-E	18-D
19-B	20-A	21-A	22-C	23-C	24-D
25-A	26-E	27-B			

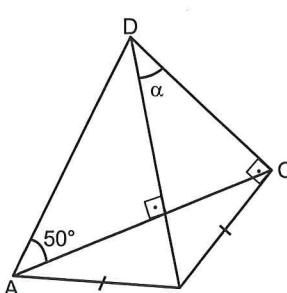
ÜNİTE UNIT 2	DÖRTGEN QUADRILATERALS	BÖLÜM CHAPTER 2
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1.  $\alpha = ?$

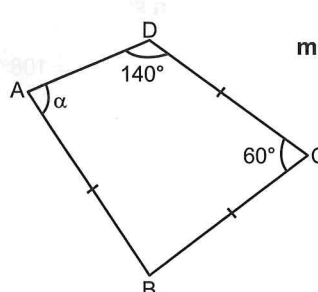
A) 110 B) 100 C) 90 D) 80 E) 70

4.  $\alpha = ?$

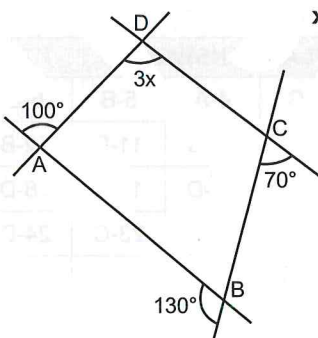
A) 30 B) 25 C) 20 D) 15 E) 10

2.  $m(\hat{D}CB) = 90^\circ$
 $[AC] \perp [BD]$
 $|AB| = |BC|$
 $|DA| = |DB|$
 $m(\hat{B}DC) = \alpha = ?$

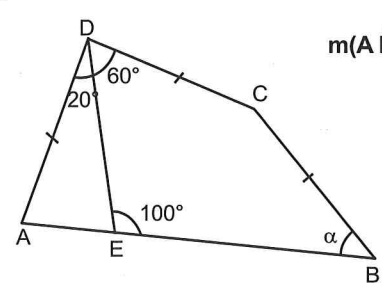
A) 20 B) 25 C) 30 D) 35 E) 40

5.  $m(\hat{B}AD) = \alpha = ?$

A) 70 B) 80 C) 85 D) 90 E) 95

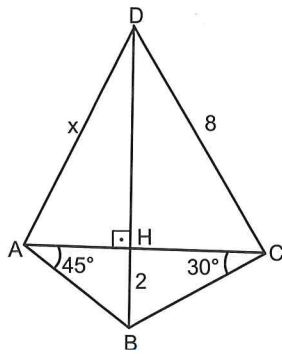
3.  $x = ?$

A) 40 B) 42 C) 45 D) 48 E) 50

6.  $m(\hat{A}BC) = \alpha = ?$

A) 50 B) 48 C) 45 D) 40 E) 35

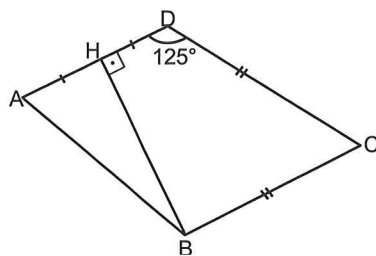
7.



$[DB] \perp [AC]$
 $|AD| = x = ? \text{ cm}$

- A) $4\sqrt{5}$ B) $6\sqrt{2}$ C) 8 D) $2\sqrt{15}$ E) $2\sqrt{14}$

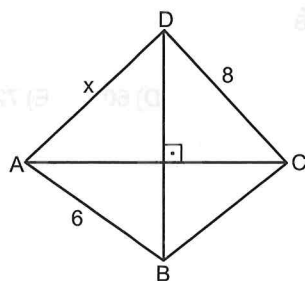
8.



$2|AH| = |AB|$
 $[AD] \perp [HB]$
 $m(\hat{BCD}) = ?$

- A) 50 B) 48 C) 45 D) 40 E) 36

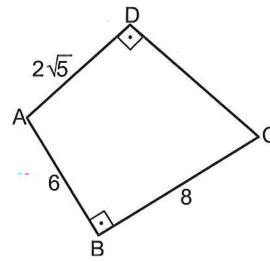
9.



$[AC] \perp [DB]$
 $2|BC| = |AD|$
 $|AD| = x = ? \text{ cm}$

- A) $4\sqrt{5}$ B) $5\sqrt{5}$ C) $3\sqrt{5}$ D) $2\sqrt{5}$ E) $\sqrt{5}$

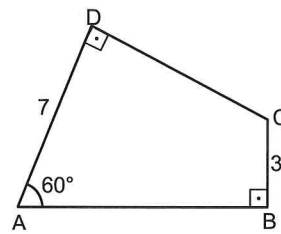
10.



$A(ABCD) = ? \text{ cm}^2$

- A) 44 B) 45 C) 48 D) 50 E) 52

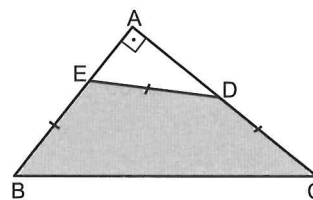
11.



$A(ABCD) = ? \text{ cm}^2$

- A) 20 B) $20\sqrt{3}$ C) 40 D) $30\sqrt{3}$ E) $40\sqrt{3}$

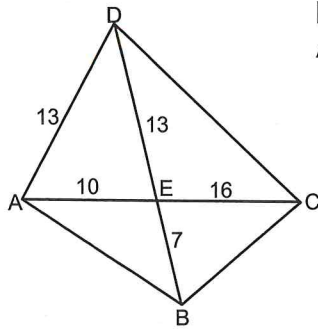
12.



$\triangle ABC \Rightarrow$
 $|AB| = 8 \text{ cm}$
 $|AC| = 9 \text{ cm}$
 $A(BCDE) = ? \text{ cm}^2$

- A) 36 B) 34 C) 32 D) 30 E) 26

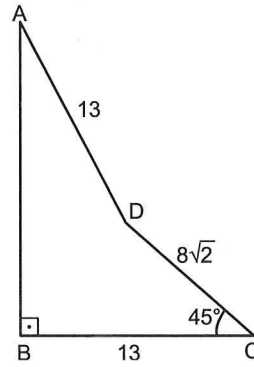
13.



$[AC] \cap [BD] = \{E\}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 240 B) 200 C) 180 D) 160 E) 120

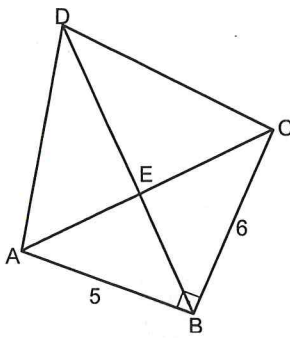
15.



$A(ABCD) = ? \text{ cm}^2$

- A) 80 B) 82 C) 88 D) 96 E) 102

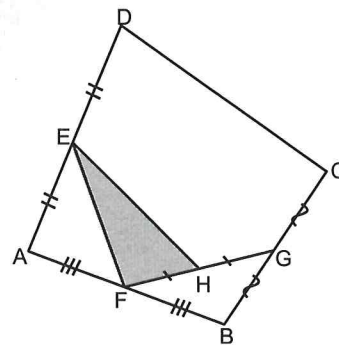
14.



$[AC] \perp [DB] = \{E\}$
 $5|EB| = 3|DE|$
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 45 C) 40 D) 30 E) 25

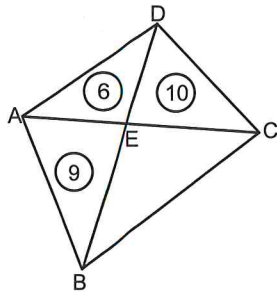
16.



$|AE| = |ED|$
 $|AF| = |FB|$
 $|BG| = |GC|$
 $|FH| = |HG|$
 $A(EFH) = 6 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 36 B) 48 C) 52 D) 60 E) 72

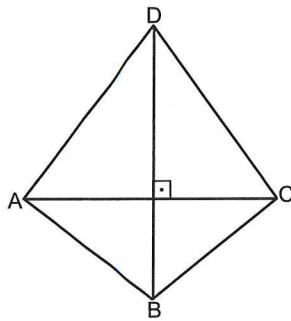
17.



$[AC] \cap [BD] = \{E\}$
 $A(AED) = 6 \text{ cm}^2$
 $A(DEC) = 10 \text{ cm}^2$
 $A(AEB) = 9 \text{ cm}^2$
 $A(EBC) = ? \text{ cm}^2$

- A) 15 B) 18 C) 20 D) 25 E) 30

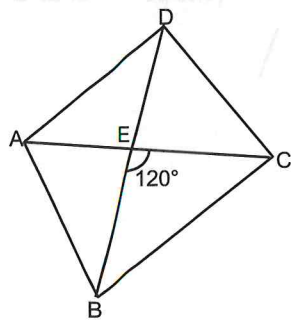
18.



$[AC] \perp [BD]$
 $|AC| = 7 \text{ cm}$
 $|BD| = 12 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 40 B) 42 C) 49 D) 63 E) 84

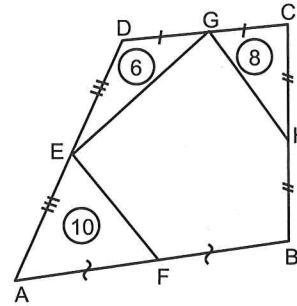
19.



$[AC] \cap [BD] = \{E\}$
 $|AC| = 8\sqrt{3}$
 $|BD| = 15$
 $A(ABCD) = ? \text{ cm}^2$

- A) 120 B) 105 C) 90 D) 72 E) 45

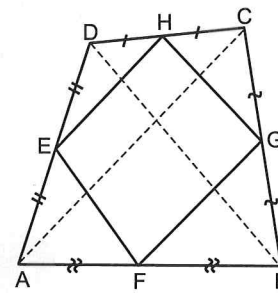
20.



$A(EDG) = 6 \text{ cm}^2$
 $A(AEF) = 10 \text{ cm}^2$
 $A(GHC) = 8 \text{ cm}^2$
 $A(EFBHG) = ? \text{ cm}^2$

- A) 30 B) 36 C) 40 D) 42 E) 48

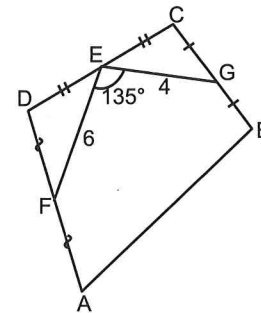
21.



$|AC| = 10 \text{ cm}$
 $|BD| = 11 \text{ cm}$
 $\text{Ç}(EFGH) = ?$

- A) 18 B) 20 C) 21 D) 23 E) 25

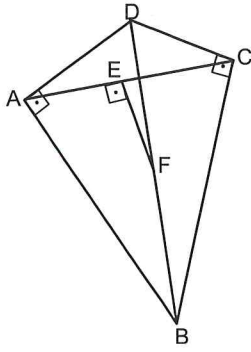
22.



$m(\hat{FEG}) = 135^\circ$
 $|EG| = 4 \text{ cm}$
 $|EF| = 6 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) $12\sqrt{2}$ B) 18 C) 24 D) $24\sqrt{2}$ E) 36

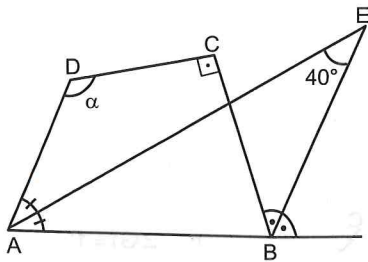
23.



- $m(\hat{DAB}) = m(\hat{DCB}) = 90^\circ$
- $|DF| = |FB|$
- $|AE| = |EC|$
- $|DB| = 10 \text{ cm}$
- $|AC| = 8 \text{ cm}$
- $|EF| = ? \text{ cm}$

- A) 3 B) $2\sqrt{2}$ C) $2\sqrt{3}$ D) $\sqrt{13}$ E) $3\sqrt{2}$

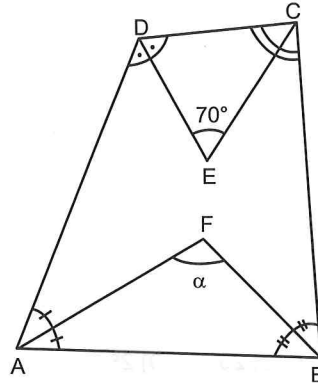
24.



$m(\hat{ADC}) = \alpha = ?$

- A) 170 B) 160 C) 150 D) 140 E) 130

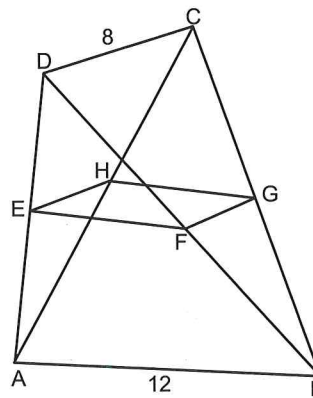
25.



$m(\hat{AFB}) = \alpha = ?$

- A) 140 B) 135 C) 120 D) 115 E) 110

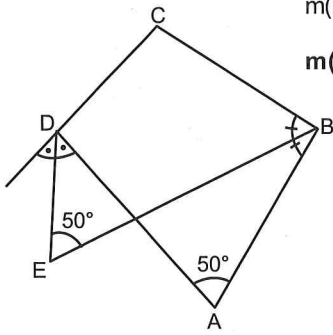
26.



- $|AE| = |ED|$
- $|AH| = |HC|$
- $|DF| = |FB|$
- $|BG| = |GC|$
- $\text{Ç}(EFGH) = ? \text{ cm}$
- (The perimeter EFGH)=?

- A) 24 B) 20 C) 18 D) 16 E) 15

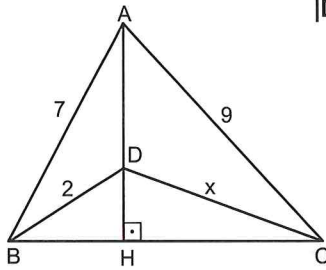
27.



$m(\hat{D}EB) = m(\hat{D}AB) = 50^\circ$
 $m(\hat{DCB}) = ?$

- A) 110 B) 115 C) 120 D) 125 E) 130

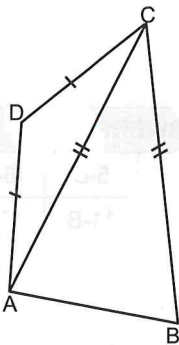
28.



$|DC| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) $3\sqrt{5}$ E) $3\sqrt{6}$

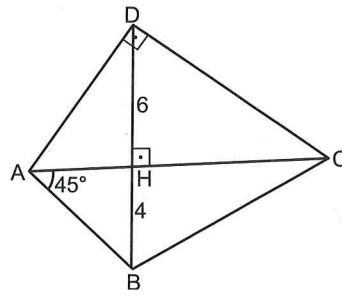
29.



$[AD] \parallel [BC]$
 $|DA| = |DC|$
 $|CA| = |CB|$
 $m(\hat{DCB}) = m(\hat{ABC})$
 $m(\hat{ADC}) = ?$

- A) 108 B) 110 C) 112 D) 120 E) 135

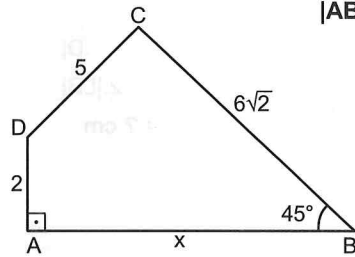
30.



$[DB] \perp [AC]$
 $m(\hat{CAB}) = 45^\circ$
 $A(ABCD) = ? \text{ cm}^2$

- A) 72 B) 70 C) 65 D) 60 E) 55

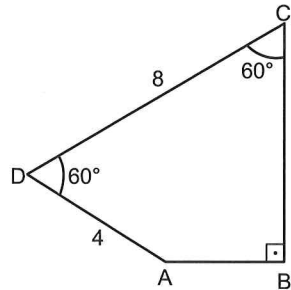
31.



$|AB| = x = ? \text{ cm}$

- A) 12 B) 11 C) 10 D) 9 E) 8

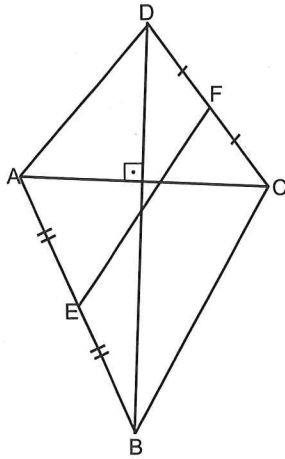
32.



$|BC| = x = ? \text{ cm}$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $\sqrt{6}$ D) 5 E) 6

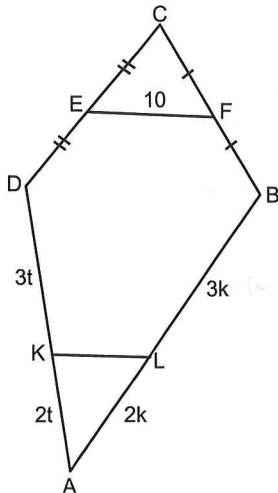
33.



$[AC] \perp [BD]$
 $|EF| = 10 \text{ cm}$
 $|DB| = 16 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 100 B) 96 C) 92 D) 88 E) 84

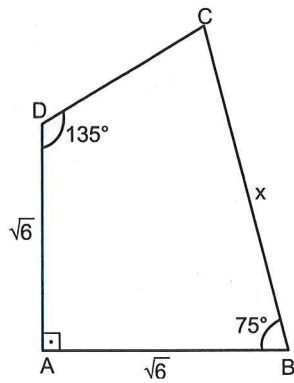
34.



$3|AK| = 2|KD|$
 $3|AL| = 2|LB|$
 $|KL| = ? \text{ cm}$

- A) 12 B) 10 C) 9 D) 8 E) 6

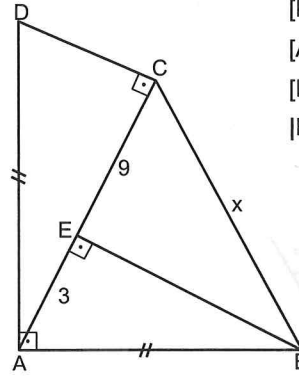
35.



$|BC| = x = ? \text{ cm}$

- A) 4 B) 4,5 C) 5 D) 6 E) $3\sqrt{2}$

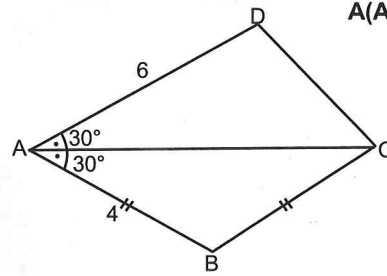
36.



$[DA] \perp [AB]$
 $[AC] \perp [EB]$
 $[DC] \perp [AC]$
 $|BC| = x = ? \text{ cm}$

- A) $3\sqrt{5}$ B) $2\sqrt{5}$ C) 15 D) $3\sqrt{6}$ E) $3\sqrt{10}$

37.



$A(ABCD) = ? \text{ cm}^2$

- A) $16\sqrt{3}$ B) 18 C) 16 D) 12 E) $10\sqrt{3}$

CEVAPLAR / ANSWERS

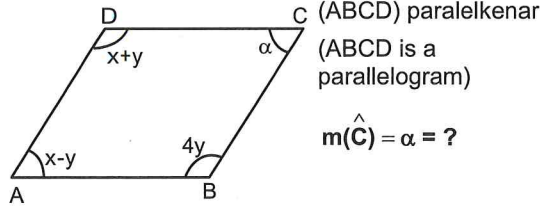
1-E	2-A	3-A	4-C	5-B	6-D
7-E	8-A	9-A	10-A	11-B	12-D
13-A	14-C	15-E	16-B	17-A	18-B
19-C	20-E	21-C	22-D	23-A	24-A
25-E	26-B	27-E	28-B	29-A	30-C
31-D	32-E	33-B	34-D	35-A	36-C
37-E					

ÜNİTE 2
UNIT 2

PARALELKENAR
PARALLELOGRAM

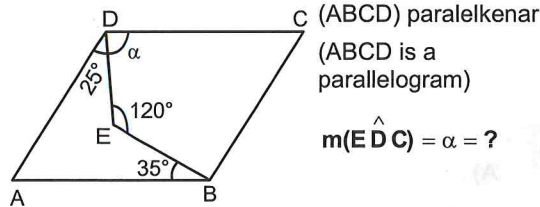
BÖLÜM 3
CHAPTER 3

1.



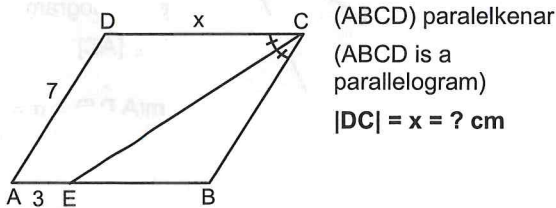
- A) 40 B) 50 C) 60 D) 70 E) 80

2.



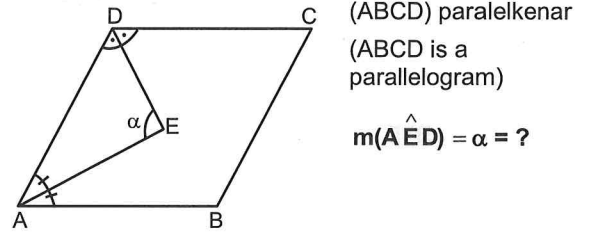
- A) 95 B) 90 C) 85 D) 80 E) 75

3.



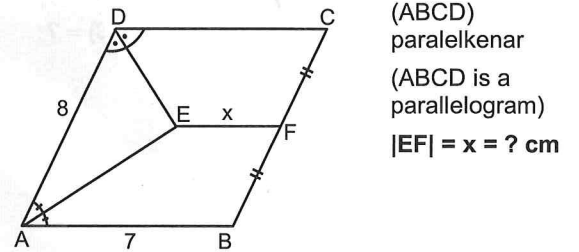
- A) 8 B) 9 C) 10 D) 11 E) 12

4.



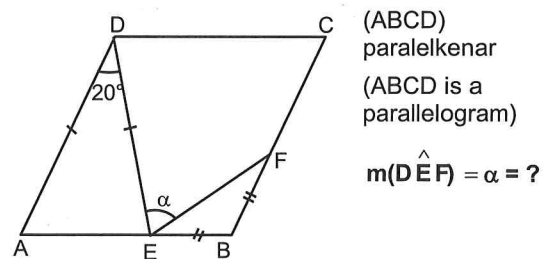
- A) 90 B) 80 C) 75 D) 72 E) 70

5.



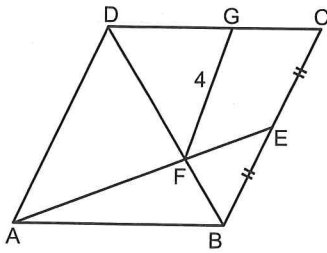
- A) 5 B) 4,5 C) 4 D) 3,5 E) 3

6.



- A) 45 B) 60 C) 70 D) 72 E) 80

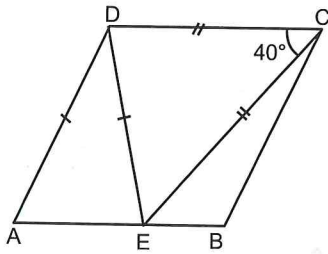
7.



(ABCD) paralelkenar
(ABCD is a parallelogram)
[AD] // [GF]
|AD| = ? cm

- A) 5 B) 5,5 C) 6 D) 6,5 E) 7

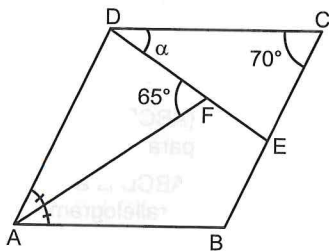
8.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $m(\hat{A}BC) = ?$

- A) 135 B) 120 C) 110 D) 105 E) 100

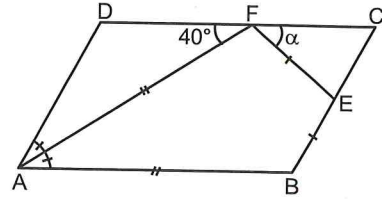
9.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $m(\hat{E}DC) = \alpha = ?$

- A) 50 B) 45 C) 40 D) 35 E) 30

10.

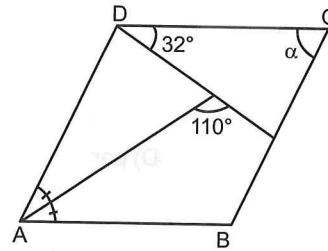


(ABCD) paralelkenar (ABCD is a parallelogram)

$m(\hat{C}FE) = \alpha = ?$

- A) 20 B) 30 C) 35 D) 40 E) 45

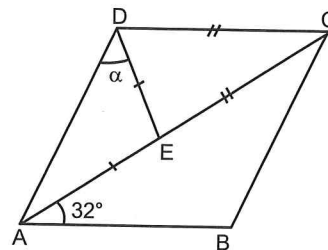
11.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $m(\hat{D}CB) = \alpha = ?$

- A) 85 B) 84 C) 82 D) 78 E) 76

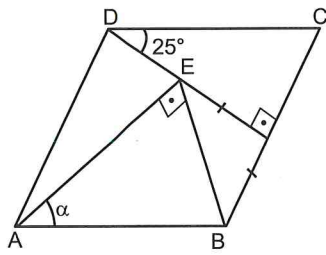
12.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $E \in [AC]$
 $m(\hat{A}DE) = \alpha = ?$

- A) 36 B) 37 C) 40 D) 42 E) 44

13.

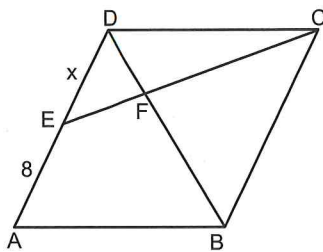


(ABCD) paralelkenar
(ABCD is a parallelogram)

$m(\hat{EAB}) = \alpha = ?$

- A) 40 B) 35 C) 30 D) 20 E) 15

14.

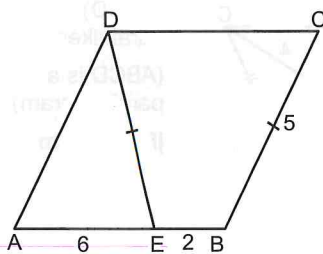


(ABCD) paralelkenar
(ABCD is a parallelogram)

$7|EF| = 3|FC|$
 $|DE| = x = ? \text{ cm}$

- A) 7 B) 6 C) 5 D) 4 E) 3

15.

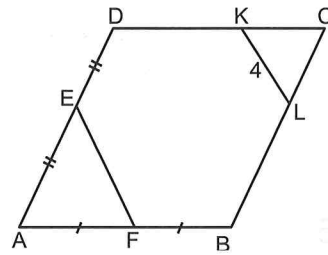


(ABCD) paralelkenar
(ABCD is a parallelogram)

$A(ABCD) = ? \text{ cm}^2$

- A) 16 B) 20 C) 24 D) 28 E) 32

16.

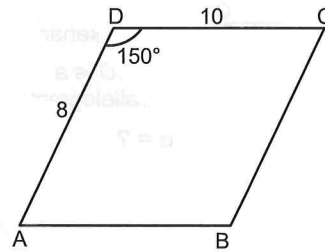


(ABCD) paralelkenar
(ABCD is a parallelogram)

$|DK| = 2|KC|$
 $|BL| = 2|LC|$
 $|EF| = ? \text{ cm}$

- A) 8 B) 7 C) 6 D) 5 E) 4

17.

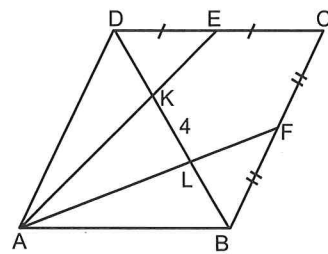


(ABCD) paralelkenar
(ABCD is a parallelogram)

$A(ABCD) = ? \text{ cm}^2$

- A) 80 B) 60 C) 50 D) 40 E) 30

18.

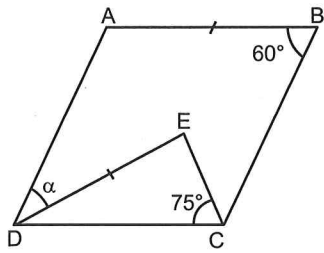


(ABCD) paralelkenar
(ABCD is a parallelogram)

$|DB| = ? \text{ cm}$

- A) 12 B) 10 C) 9 D) 8 E) 7

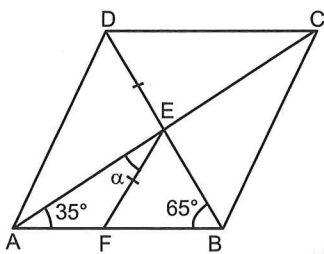
19.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $\alpha = ?$

- A) 25 B) 30 C) 35 D) 40 E) 45

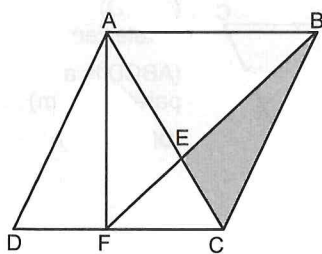
20.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $\alpha = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

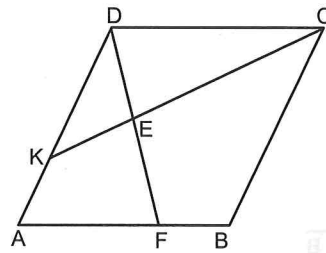
21.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $2|DF| = |FC|$
 $A(EBC) = 18 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 70 B) 75 C) 80 D) 85 E) 90

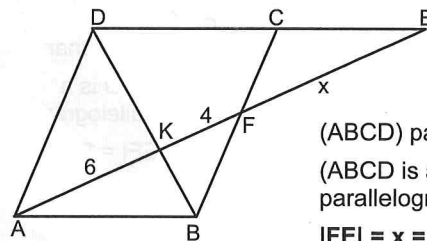
22.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $3|AK| = |KD|$
 $2|FB| = |AF|$
 $\frac{|KE|}{|EC|} = ?$

- A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{1}{2}$ E) $\frac{1}{4}$

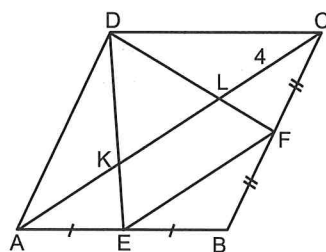
23.



(ABCD) paralelkenar
(ABCD is a
parallelogram)
 $|FE| = x = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

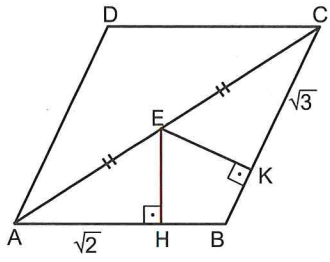
24.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $|EF| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

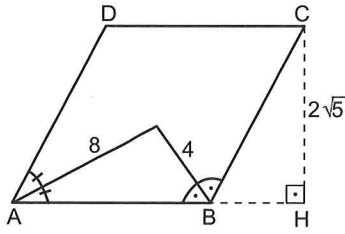
25.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|AC| = 4$ cm
 $|AH| = \sqrt{2}$ cm
 $|CK| = \sqrt{3}$ cm
 $m(\hat{ADC}) = ?$

- A) 95 B) 100 C) 105 D) 108 E) 120

26.

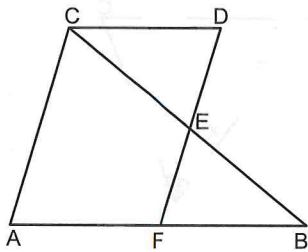


(ABCD) paralelkenar
(ABCD is a parallelogram)
[CH] yükseklik
(CH is a height)

$A(ABCD) = ? \text{ cm}^2$

- A) 30 B) 32 C) 36 D) 40 E) 48

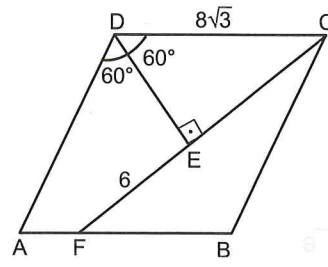
27.



(ABCD) paralelkenar
(ABCD is a parallelogram)
[CD] // [AB]
 $|AC| = 2|DE|$
 $|AB| = 18$ cm
 $|CD| = ?$ cm

- A) 6 B) 7 C) 8 D) 9 E) 10

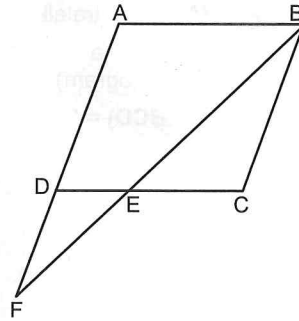
28.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) $24\sqrt{3}$ B) $34\sqrt{3}$ C) $48\sqrt{3}$
D) $54\sqrt{3}$ E) $72\sqrt{3}$

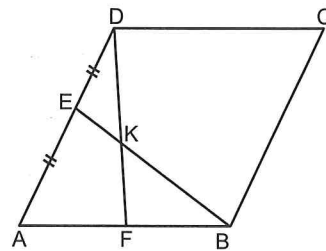
29.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $\frac{A(BEC)}{A(DEF)} = 4$
 $\frac{A(BEC)}{A(ADEB)} = ?$

- A) $\frac{1}{3}$ B) $\frac{3}{8}$ C) $\frac{4}{7}$ D) $\frac{1}{2}$ E) $\frac{5}{8}$

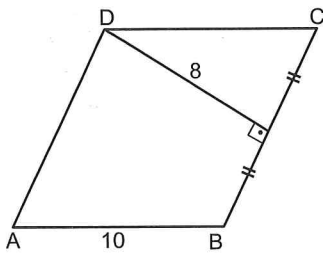
30.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|DK| = 2|KF|$
 $A(AFKE) = 8 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 16 B) 22 C) 32 D) 42 E) 48

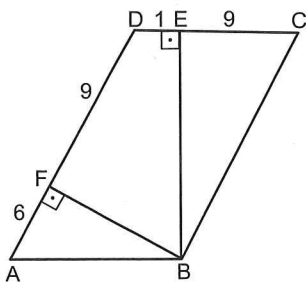
31.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) 144 B) 120 C) 112 D) 108 E) 96

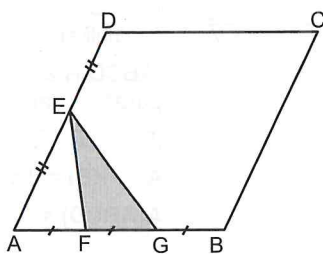
32.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) 100 B) 110 C) 120 D) 130 E) 140

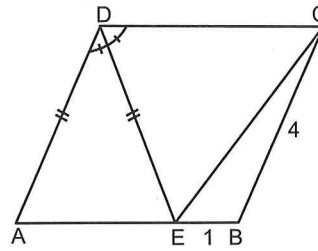
33.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $\frac{A(EFG)}{A(ABCD)} = ?$

- A) $\frac{1}{6}$ B) $\frac{1}{8}$ C) $\frac{1}{9}$ D) $\frac{1}{10}$ E) $\frac{1}{12}$

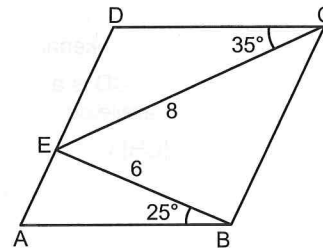
34.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|EC| = ? \text{ cm}$

- A) $\sqrt{21}$ B) 5 C) $2\sqrt{7}$ D) $4\sqrt{2}$ E) 6

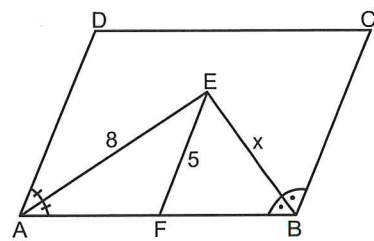
35.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) $48\sqrt{3}$ B) $24\sqrt{3}$ C) $12\sqrt{3}$ D) 48 E) 24

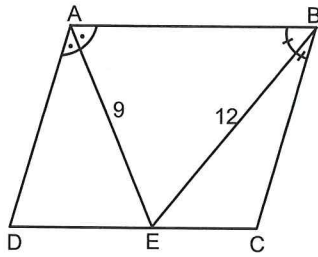
36.



(ABCD) paralelkenar (ABCD is a parallelogram)
 $[AD] \parallel [EF], |EB| = x = ?$

- A) 4 B) 5 C) $2\sqrt{6}$ D) 6 E) $4\sqrt{2}$

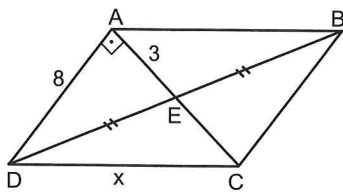
37.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $\zeta(ABCD) = ? \text{ cm}$

- A) 30 B) 33 C) 35 D) 42 E) 45

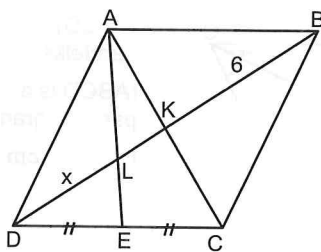
38.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|DC| = x = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

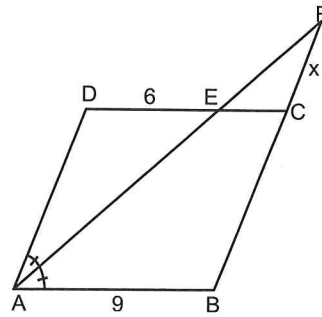
39.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|DL| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

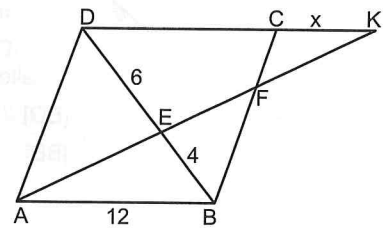
40.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|CF| = x = ? \text{ cm}$

- A) 1 B) 2 C) 3 D) 4 E) 5

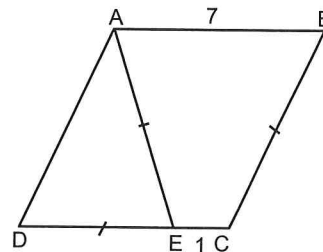
41.



(ABCD) paralelkenar (ABCD is a parallelogram)
 $|CK| = x = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

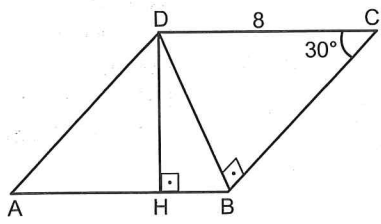
42.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) $14\sqrt{3}$ B) $15\sqrt{3}$ C) $18\sqrt{3}$
D) $21\sqrt{3}$ E) $24\sqrt{3}$

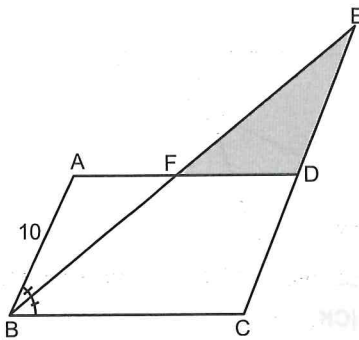
43.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|AH| = ? \text{ cm}$

- A) 7 B) 6 C) 5 D) 4 E) 3

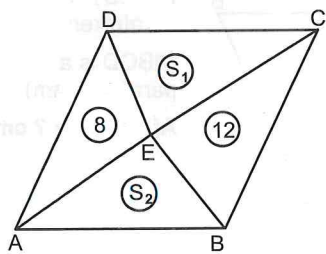
44.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $[ED] \parallel [AB]$
 $|BE| = 24 \text{ cm}$
 $|BF| = 12 \text{ cm}$
 $A(FDE) = ? \text{ cm}^2$

- A) 24 B) 48 C) 64 D) 72 E) 80

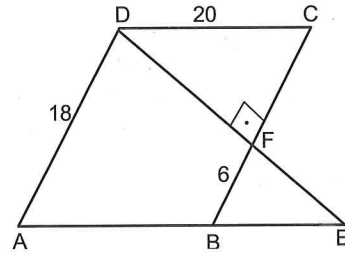
45.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(DAE) = 8 \text{ cm}^2$
 $A(CEB) = 12 \text{ cm}^2$
 $\frac{S_1}{S_2} = \frac{3}{2}$
 $S_1 = ? \text{ cm}^2$

- A) 12 B) 9 C) 8 D) 7 E) 6

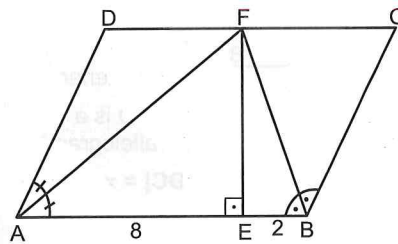
46.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(AED) = ? \text{ cm}^2$

- A) 288 B) 252 C) 222 D) 216 E) 162

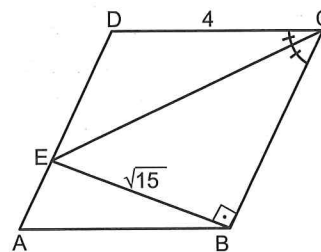
47.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) 10 B) 20 C) 40 D) 60 E) 80

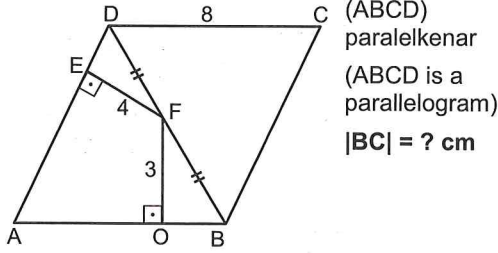
48.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|BC| = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 10

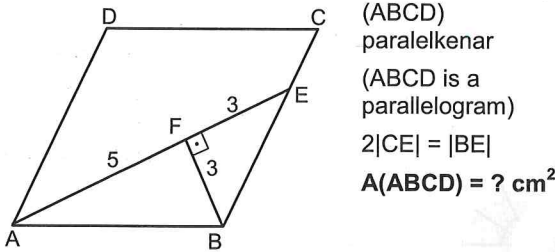
49.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|BC| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

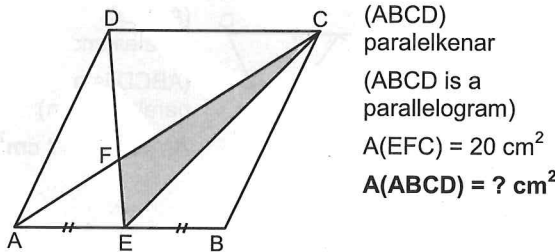
50.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $2|CE| = |BE|$
 $A(ABCD) = ? \text{ cm}^2$

- A) 16 B) 24 C) 36 D) 40 E) 48

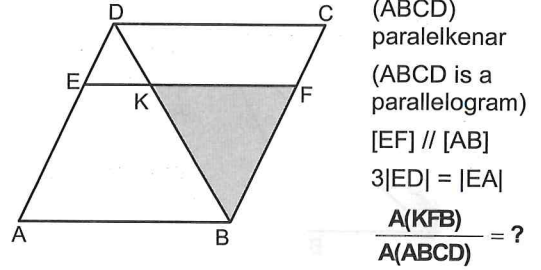
51.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(EFC) = 20 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 90 C) 120 D) 150 E) 160

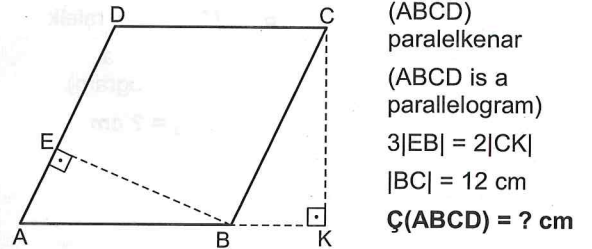
52.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $[EF] \parallel [AB]$
 $3|ED| = |EA|$
 $\frac{A(KFB)}{A(ABCD)} = ?$

- A) $\frac{1}{4}$ B) $\frac{3}{8}$ C) $\frac{5}{16}$ D) $\frac{9}{32}$ E) $\frac{27}{64}$

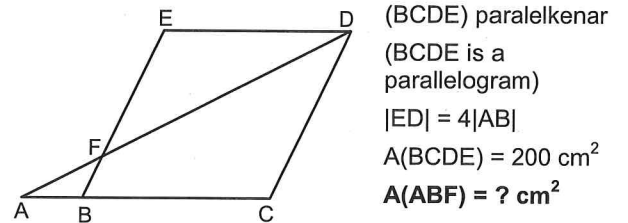
53.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $3|EB| = 2|CK|$
 $|BC| = 12 \text{ cm}$
 $\mathcal{C}(ABCD) = ? \text{ cm}$

- A) 36 B) 40 C) 44 D) 48 E) 52

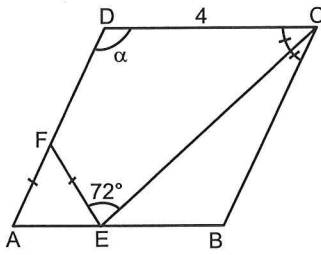
54.



(BCDE) paralelkenar
(BCDE is a parallelogram)
 $|ED| = 4|AB|$
 $A(BCDE) = 200 \text{ cm}^2$
 $A(ABF) = ? \text{ cm}^2$

- A) 3 B) 4 C) 5 D) 10 E) 15

55.

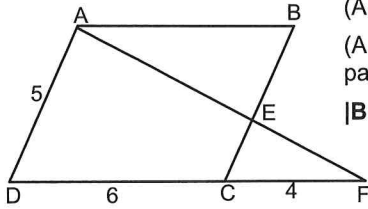


(ABCD) paralelkenar
(ABCD is a parallelogram)

$m(\hat{ADC}) = \alpha = ?$

- A) 108 B) 112 C) 114 D) 116 E) 118

56.

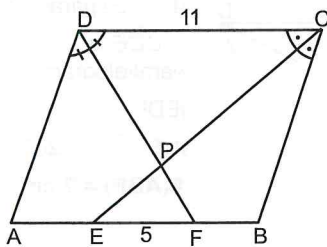


(ABCD) paralelkenar
(ABCD is a parallelogram)

$|BE| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

57.



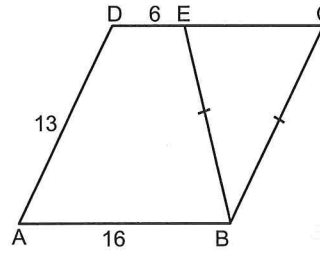
$[CE] \cap [DF] = \{P\}$

(ABCD) paralelkenar
(ABCD is a parallelogram)

$|BC| = ? \text{ cm}$

- A) 10 B) 9 C) 8 D) 7 E) 6

58.

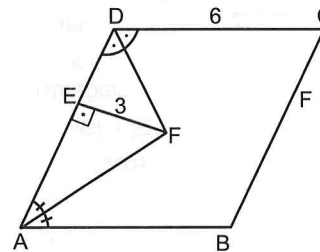


(ABCD) paralelkenar
(ABCD is a parallelogram)

$A(ABCD) = ? \text{ cm}^2$

- A) 78 B) 84 C) 90 D) 96 E) 192

59.

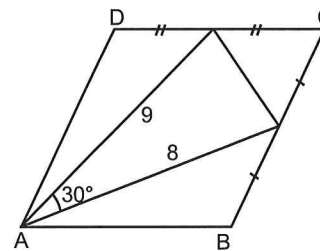


(ABCD) paralelkenar
(ABCD is a parallelogram)

$A(ABCD) = ? \text{ cm}^2$

- A) 24 B) 32 C) 36 D) 48 E) 54

60.

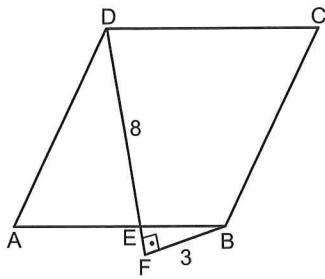


(ABCD) paralelkenar
(ABCD is a parallelogram)

$A(ABCD) = ? \text{ cm}^2$

- A) 32 B) 36 C) 40 D) 48 E) 64

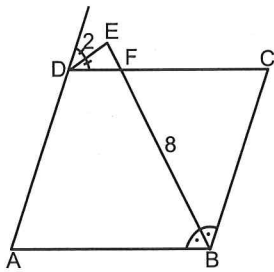
61.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|DE| = 8 \text{ cm}$
 $|FB| = 3 \text{ cm}$
 $2|AE| = 3|EB|$
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 64 C) 75 D) 80 E) 90

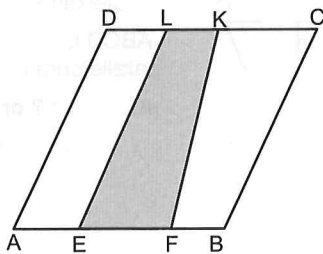
62.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|FB| = 8 \text{ cm}$
 $|DE| = 2 \text{ cm}$
 $4|DF| = |FC|$
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 70 C) 80 D) 90 E) 100

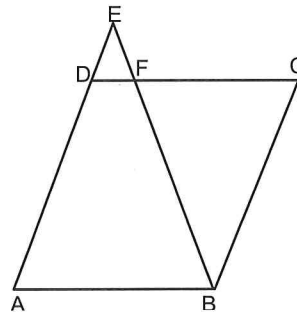
63.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $3|KL| = |DC|$
 $3|EF| = 2|AB|$
 $\frac{A(EFKL)}{A(ABCD)} = ?$

- A) $\frac{17}{30}$ B) $\frac{18}{25}$ C) $\frac{1}{2}$ D) $\frac{13}{25}$ E) $\frac{14}{29}$

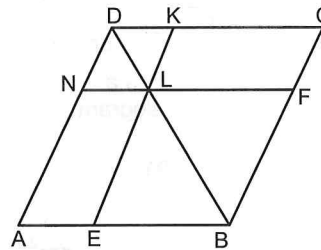
64.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(EDF) = 3 \text{ cm}^2$
 $A(BFC) = 27 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 51 B) 56 C) 60 D) 64 E) 72

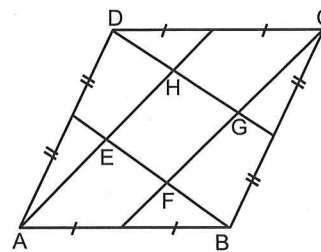
65.



$[AD] \parallel [EK] \parallel [BC]$
 $[AB] \parallel [NF] \parallel [CD]$
 $A(AELN) = 20 \text{ cm}^2$
 $A(KCFL) = ? \text{ cm}^2$

- A) 20 B) 25 C) 30 D) 35 E) 40

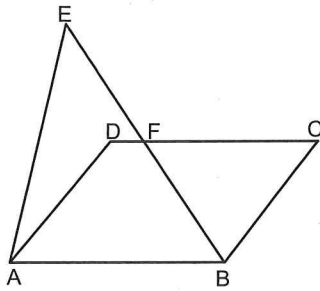
66.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $A(ABCD) = 120 \text{ cm}^2$
 $A(EFGH) = ? \text{ cm}^2$

- A) 28 B) 26 C) 24 D) 22 E) 20

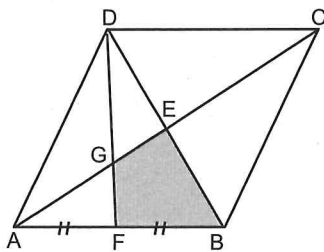
67.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $5|EF| = 4|FB|$
 $\triangle (EAB) \Rightarrow$
 $\frac{A(EAB)}{A(ABCD)} = ?$

- A) $\frac{3}{4}$ B) $\frac{4}{5}$ C) $\frac{6}{7}$ D) $\frac{8}{9}$ E) $\frac{9}{10}$

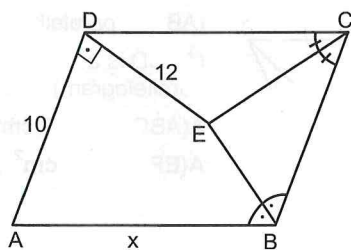
68.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $\triangle (DAB) \Rightarrow$
 $A(FBEG) = 6 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 24 B) 32 C) 36 D) 42 E) 48

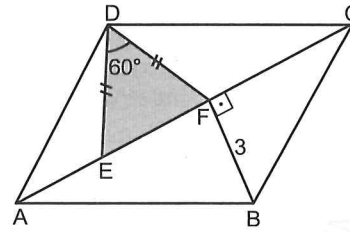
69.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $|AB| = x = ? \text{ cm}$

- A) 15 B) 16 C) 17 D) 18 E) 20

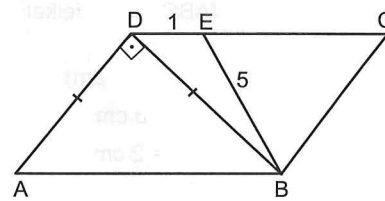
70.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $\{E, F\} \in [AC]$
 $A(DEF) = ? \text{ cm}^2$

- A) $3\sqrt{3}$ B) $4\sqrt{3}$ C) $5\sqrt{3}$ D) $6\sqrt{3}$ E) $7\sqrt{3}$

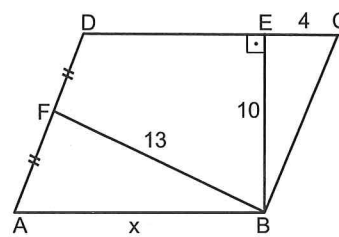
71.



(ABCD) paralelkenar (ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

- A) 12 B) 18 C) 20 D) 24 E) 32

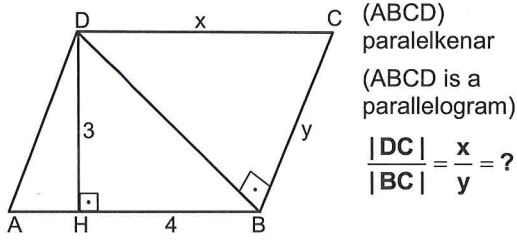
72.



(ABCD)
paralelkenar
(ABCD is a
parallelogram)
 $|AB| = x = ? \text{ cm}$

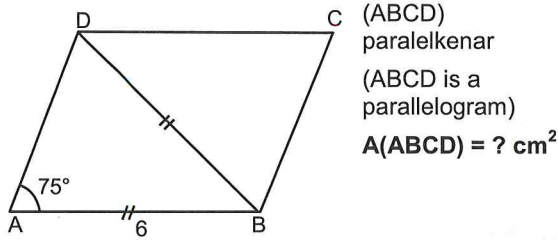
- A) 13 B) 14 C) 15 D) 16 E) 17

73.



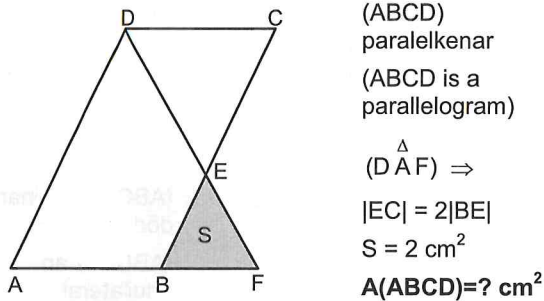
- A) $\frac{2}{3}$ B) $\frac{5}{3}$ C) $\frac{1}{3}$ D) $\frac{1}{2}$ E) $\frac{3}{4}$

74.



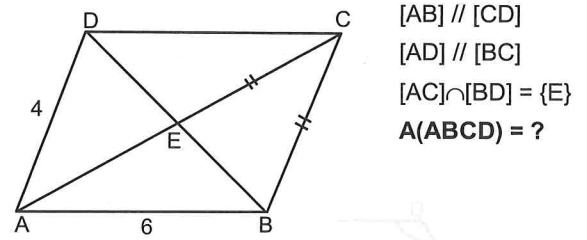
- A) 36 B) 30 C) 24 D) 20 E) 18

75.



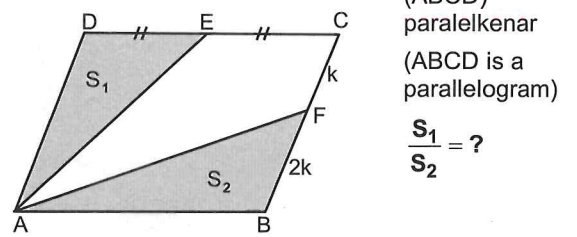
- A) 36 B) 28 C) 24 D) 20 E) 16

76.



- A) $3\sqrt{5}$ B) $4\sqrt{15}$ C) $6\sqrt{15}$
D) $8\sqrt{15}$ E) $10\sqrt{5}$

77.

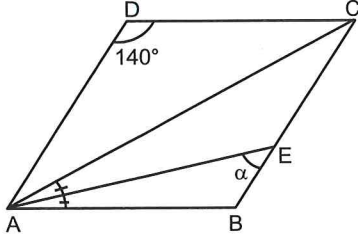


- A) $\frac{3}{4}$ B) $\frac{4}{5}$ C) $\frac{5}{6}$ D) $\frac{1}{2}$ E) $\frac{1}{3}$

CEVAPLAR / ANSWERS					
1-C	2-A	3-C	4-A	5-E	6-B
7-C	8-C	9-E	10-D	11-E	12-B
13-D	14-B	15-E	16-C	17-D	18-A
19-B	20-A	21-E	22-D	23-D	24-A
25-C	26-D	27-D	28-E	29-D	30-E
31-E	32-C	33-E	34-A	35-B	36-D
37-E	38-E	39-B	40-C	41-E	42-D
43-B	44-B	45-A	46-D	47-C	48-A
49-A	50-C	51-C	52-D	53-B	54-C
55-A	56-B	57-C	58-E	59-C	60-D
61-A	62-C	63-C	64-E	65-A	66-C
67-E	68-C	69-D	70-A	71-E	72-B
73-B	74-E	75-C	76-C	77-A	

ÜNİTE 2
UNIT 2
EŞKENAR DÖRTGEN
EQUILATERAL QUADRANGLE
BÖLÜM 4
CHAPTER 4

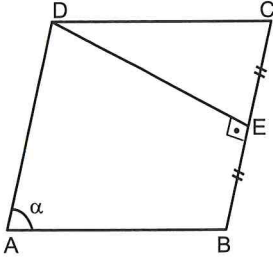
1.



(ABCD) eşkenar dörtgen
 (ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

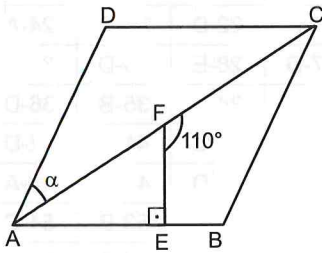
2.



(ABCD) eşkenar dörtgen
 (ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

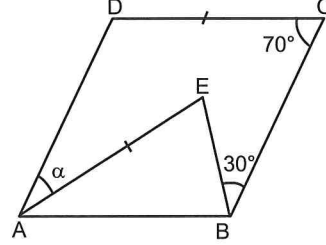
3.



(ABCD) eşkenar dörtgen
 (ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

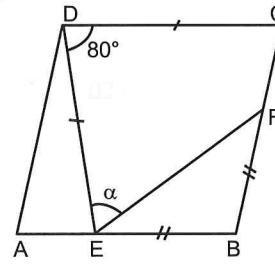
4.



(ABCD) eşkenar dörtgen
 (ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 50 B) 60 C) 70 D) 80 E) 90

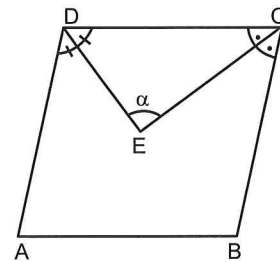
5.



(ABCD) eşkenar dörtgen
 (ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

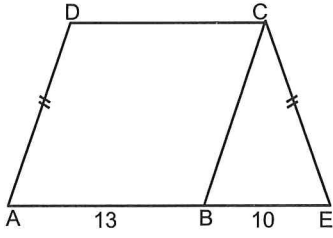
6.



(ABCD) eşkenar dörtgen
 (ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 60 B) 70 C) 80 D) 90 E) 100

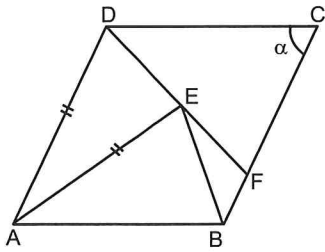
7.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 132 B) 144 C) 156 D) 168 E) 180

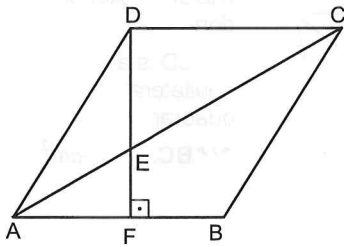
8.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $m(\hat{FEB}) = 25^\circ$
 $m(\hat{DCB}) = \alpha = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

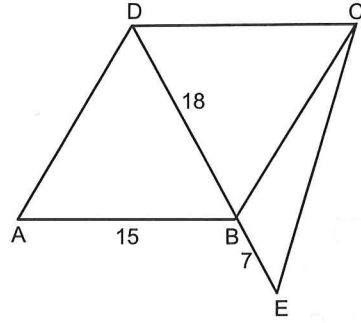
9.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|EF| = 4$
 $|DE| = 8$
 $|EC| = ? \text{ cm}$

- A) 14 B) 16 C) 18 D) 20 E) 22

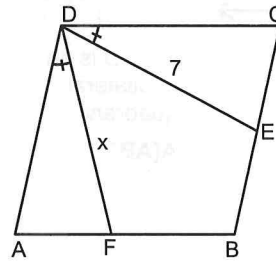
10.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|CE| = ? \text{ cm}$

- A) 15 B) 17 C) 20 D) 24 E) 25

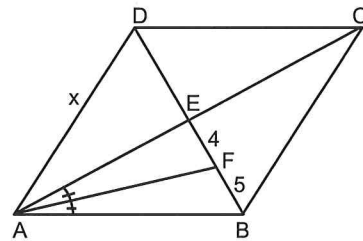
11.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|DF| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

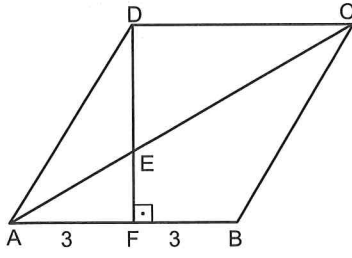
12.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|AD| = x = ? \text{ cm}$

- A) 12 B) 13 C) 15 D) 16 E) 20

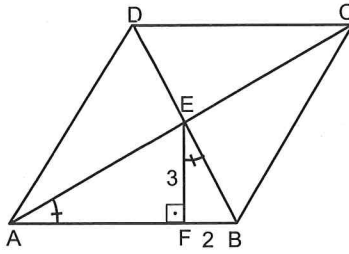
13.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(DEC) = ? \text{ cm}^2$

- A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) $8\sqrt{3}$ D) $12\sqrt{3}$ E) $24\sqrt{3}$

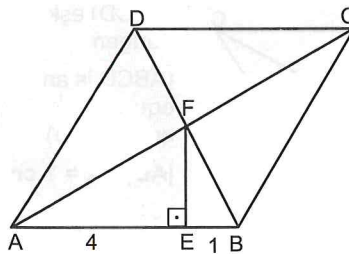
14.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 30 B) 33 C) 36 D) 39 E) 42

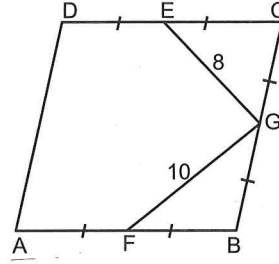
15.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(EBCF) = ? \text{ cm}^2$

- A) 6 B) 5 C) 4 D) 3 E) 2

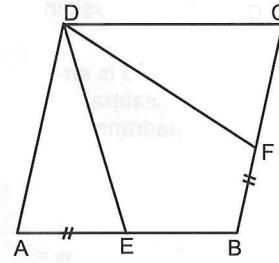
16.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(AFGE) = ? \text{ cm}^2$

- A) 120 B) 150 C) 160 D) 180 E) 200

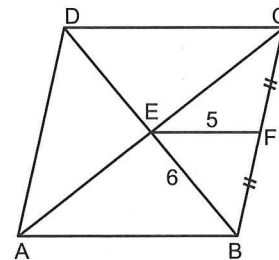
17.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = 60 \text{ cm}^2$
 $A(EBFD) = ? \text{ cm}^2$

- A) 12 B) 18 C) 24 D) 30 E) 36

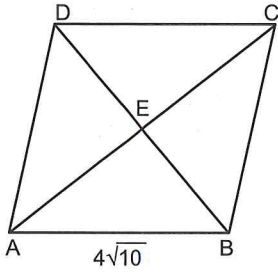
18.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 48 B) 54 C) 72 D) 92 E) 96

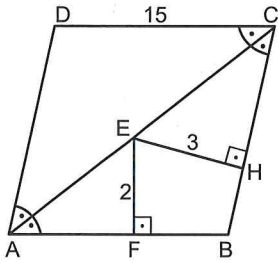
19.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|AC| = 3|BD|$
 $|EB| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

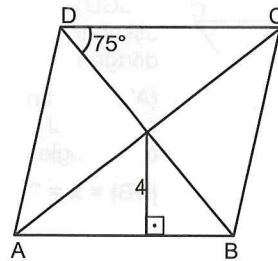
20.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 65 C) 70 D) 75 E) 80

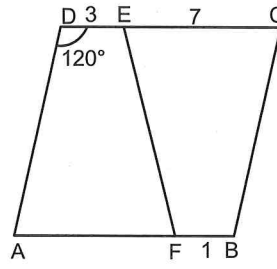
21.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 32 B) 64 C) 128 D) 144 E) 256

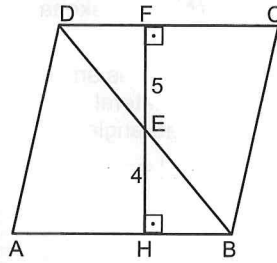
22.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|EF| = ? \text{ cm}$

- A) $2\sqrt{13}$ B) $3\sqrt{7}$ C) 8 D) $5\sqrt{3}$ E) $2\sqrt{19}$

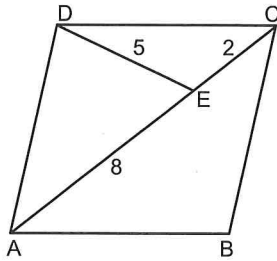
23.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|AD| = |DB|$
 $A(ABCD) = ? \text{ cm}^2$

- A) $24\sqrt{3}$ B) $27\sqrt{3}$ C) $48\sqrt{3}$
D) $54\sqrt{3}$ E) $63\sqrt{3}$

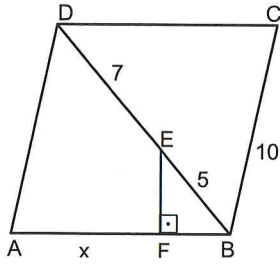
24.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $E \in [AC]$
 $A(ABCD) = ? \text{ cm}^2$

- A) 30 B) 40 C) 50 D) 60 E) 80

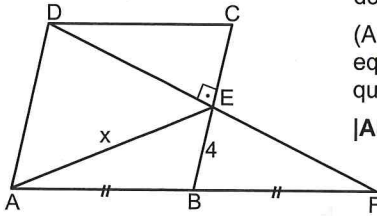
25.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|AF| = x = ?$ cm

- A) 5 B) 6 C) 7 D) 8 E) 9

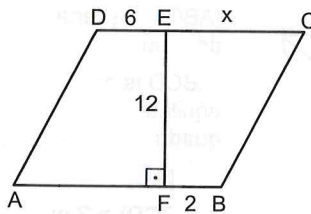
26.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|AE| = x = ?$ cm

- A) $2\sqrt{7}$ B) $4\sqrt{2}$ C) 7 D) $4\sqrt{5}$ E) $4\sqrt{7}$

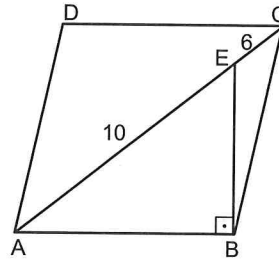
27.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|EC| = x = ?$ cm

- A) 6 B) 7 C) 8 D) 9 E) 10

28.

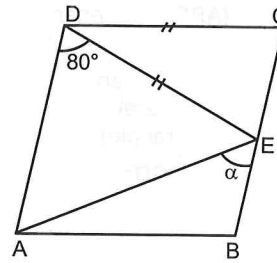


(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)

$\Ç(ABCD) = ?$ cm / (The primeter ABCD) = ?

- A) $8\sqrt{5}$ B) $12\sqrt{5}$ C) $16\sqrt{5}$
D) $20\sqrt{5}$ E) $24\sqrt{5}$

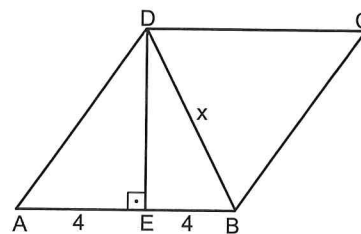
29.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $m(\hat{AEB}) = \alpha = ?$

- A) 50 B) 45 C) 40 D) 35 E) 30

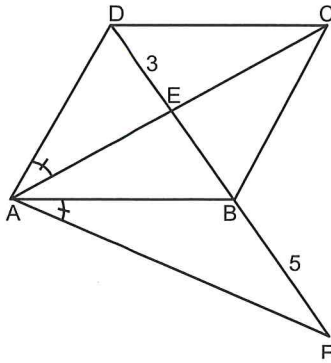
30.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|DB| = x = ?$ cm

- A) 4 B) 5 C) 6 D) 7 E) 8

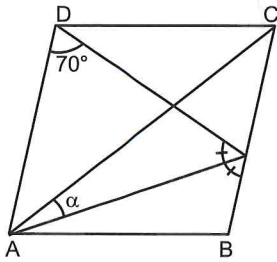
31.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABF) = ? \text{ cm}^2$

- A) 25 B) 20 C) 15 D) 10 E) 5

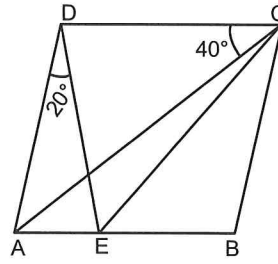
32.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $\alpha = ?$

- A) 12 B) 15 C) 18 D) 20 E) 24

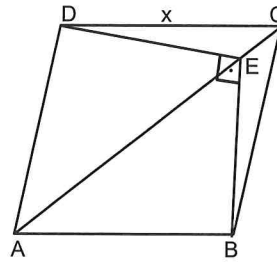
33.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|DE| = |CB|$
 $m(\hat{ACE}) = ?$

- A) 25 B) 20 C) 15 D) 10 E) 5

34.

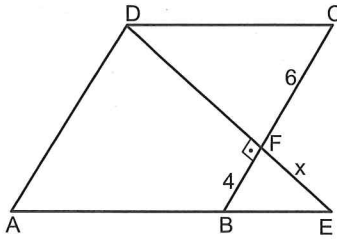


(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)

$$\left. \begin{array}{l} |AE| = 14 \text{ cm} \\ |EC| = 2 \text{ cm} \end{array} \right\} \Rightarrow |DC| = x = ? \text{ cm}$$

- A) 8 B) 10 C) 12 D) 14 E) 16

35.



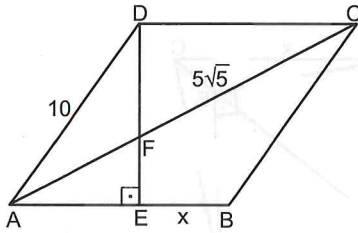
(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)

$[DE] \perp [BC]$

$|FE| = x = ? \text{ cm}$

- A) 5 B) 6 C) $\frac{8}{3}$ D) $\frac{10}{3}$ E) $\frac{16}{3}$

36.



(ABCD) eşkenar dörtgen

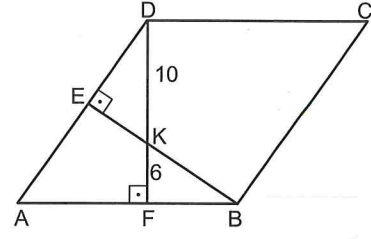
(ABCD is an equilateral quadrangle)

$[DE] \cap [AC] = \{F\}$

$|EB| = x = ? \text{ cm}$

- A) 3 B) 3,5 C) 4 D) 4,5 E) 5

37.



(ABCD) eşkenar dörtgen

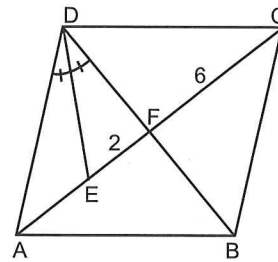
(ABCD is an equilateral quadrangle)

$[BE] \cap [DF] = \{K\}$

$A(ABCD) = ? \text{ cm}^2$

- A) 320 B) 360 C) 364 D) 384 E) 395

38.



(ABCD) eşkenar dörtgen

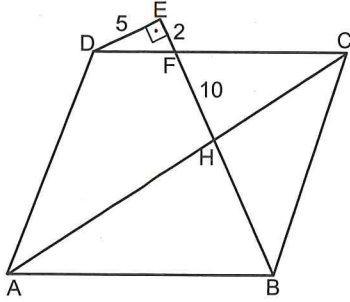
(ABCD is an equilateral quadrangle)

$[AC] \cap [DE] = \{F\}$

$A(ABCD) = ? \text{ cm}^2$

- A) $12\sqrt{3}$ B) $18\sqrt{3}$ C) $24\sqrt{3}$
D) $36\sqrt{3}$ E) $48\sqrt{3}$

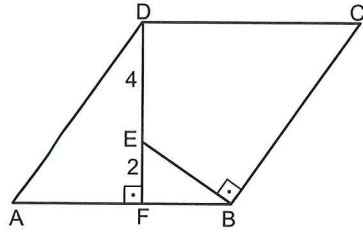
39.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $|HB| = ? \text{ cm}$

- A) 12 B) 13 C) 14 D) 15 E) 18

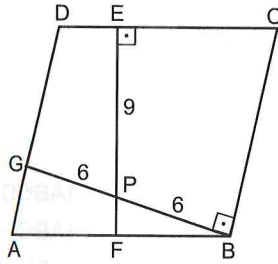
40.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $E \in [DF] \Rightarrow |FB| = ? \text{ cm}$

- A) 2 B) $2\sqrt{2}$ C) $2\sqrt{3}$ D) 4 E) $2\sqrt{5}$

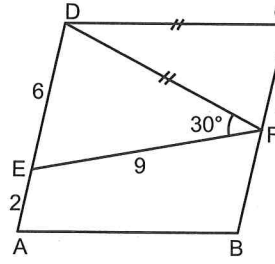
41.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $[EF] \cap [GB] = \{P\}$
 $A(ABCD) = ? \text{ cm}^2$

- A) $48\sqrt{3}$ B) $54\sqrt{3}$ C) $72\sqrt{3}$
D) $92\sqrt{3}$ E) $96\sqrt{3}$

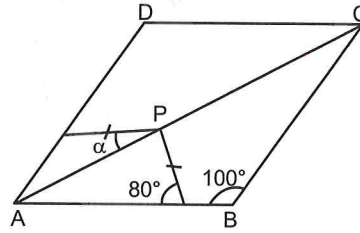
42.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 48 B) 56 C) 60 D) 72 E) 96

43.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $P \in [AC]$
 $\alpha = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

CEVAPLAR / ANSWERS

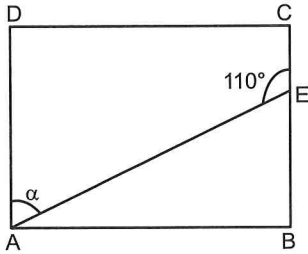
1-C	2-C	3-B	4-A	5-E	6-D
7-C	8-A	9-B	10-C	11-C	12-C
13-B	14-D	15-A	16-A	17-D	18-E
19-C	20-D	21-C	22-E	23-D	24-B
25-C	26-E	27-B	28-C	29-A	30-E
31-C	32-D	33-D	34-B	35-E	36-C
37-A	38-C	39-B	40-C	41-E	42-A
43-E					

ÜNİTE
UNIT 2

DİKDÖRTGEN
RECTANGLE

BÖLÜM
CHAPTER 5

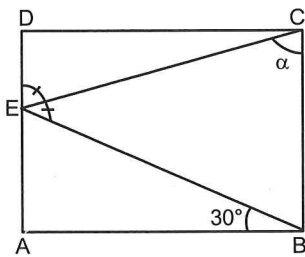
1.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\alpha = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

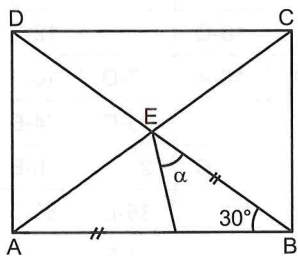
2.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\alpha = ?$

- A) 50 B) 55 C) 57 D) 60 E) 62

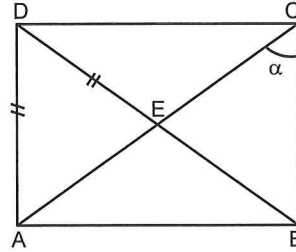
3.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\alpha = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

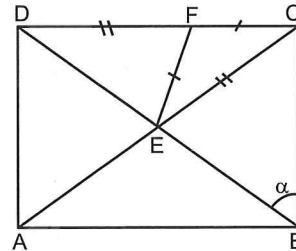
4.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\alpha = ?$

- A) 30 B) 40 C) 60 D) 70 E) 80

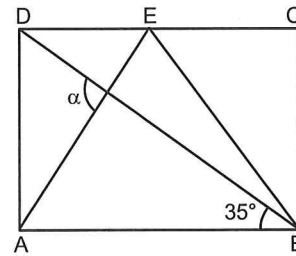
5.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\alpha = ?$

- A) 72 B) 62 C) 58 D) 54 E) 36

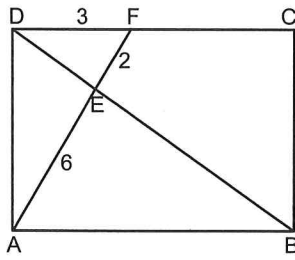
6.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AE| = |EB| = |AB|$
 $\alpha = ?$

- A) 120 B) 115 C) 105 D) 100 E) 95

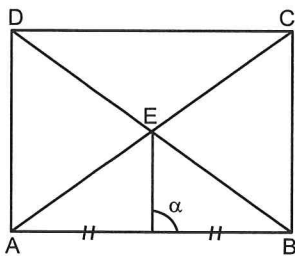
7.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[AF] \cap [DB] = \{E\}$
 $|AB| = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

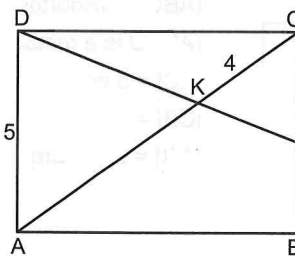
8.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\alpha = ?$

- A) 50 B) 60 C) 70 D) 80 E) 90

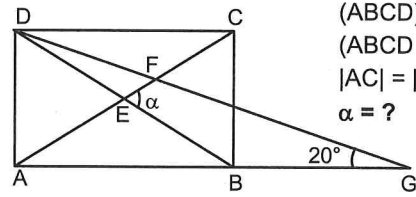
9.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[AC] \cap [DE] = \{K\}$
 $|AK| = ?$ cm

- A) 7 B) 8 C) 10 D) 12 E) 13

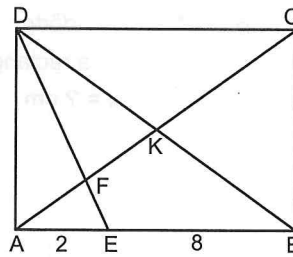
10.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AC| = |BG|$
 $\alpha = ?$

- A) 60 B) 70 C) 80 D) 90 E) 95

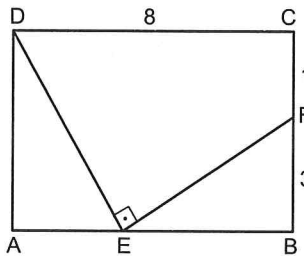
11.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\frac{|AF|}{|BK|} = ?$

- A) $\frac{1}{4}$ B) $\frac{1}{3}$ C) $\frac{1}{2}$ D) $\frac{2}{3}$ E) $\frac{3}{4}$

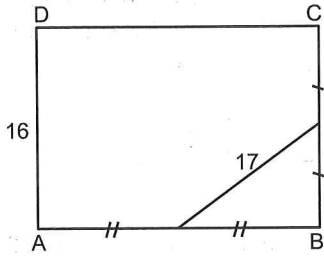
12.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|EB| = ?$ cm

- A) 7 B) 6 C) 5 D) 4 E) 3

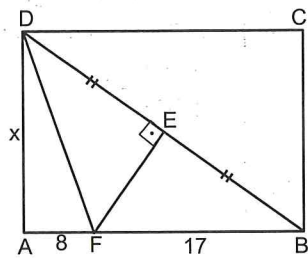
13.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AB| = ? \text{ cm}$

- A) 20 B) 22 C) 24 D) 28 E) 30

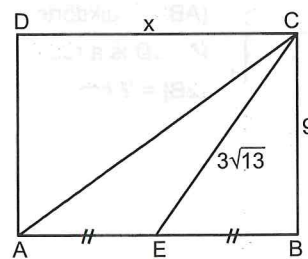
14.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|DA| = x = ? \text{ cm}$

- A) 14 B) 15 C) 16 D) 17 E) 18

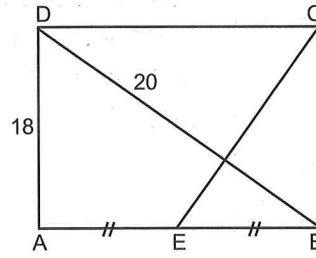
15.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|DC| = x = ? \text{ cm}$

- A) 9 B) 10 C) 11 D) 12 E) 13

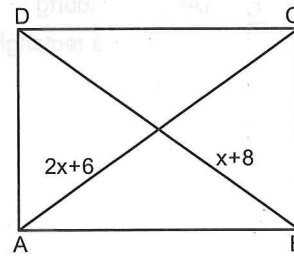
16.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\text{Ç}(ABCD) = ? \text{ cm}$
(The perimeter ABCD) = ?

- A) 80 B) 84 C) 88 D) 92 E) 100

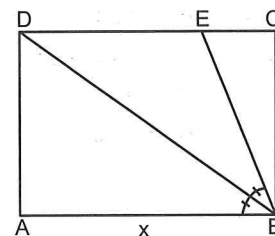
17.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|CB| = 12 \text{ cm}$
 $|DC| = ? \text{ cm}$

- A) 16 B) 15 C) 14 D) 13 E) 12

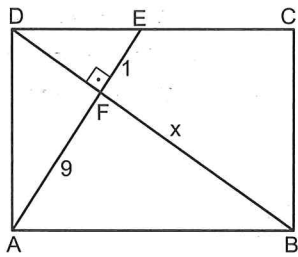
18.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|EC| = 5 \text{ cm}$
 $|CB| = 12 \text{ cm}$
 $|AB| = x = ? \text{ cm}$

- A) 17 B) 18 C) 19 D) 20 E) 21

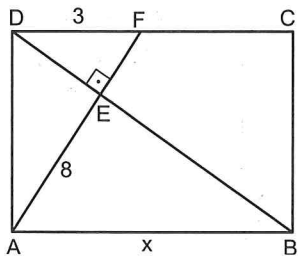
19.



(ABCD) dikdörtgen
(ABCD is a rectangle)
[AE] ⊥ [BD]
|FB| = x = ? cm

- A) 9 B) 12 C) 18 D) 24 E) 27

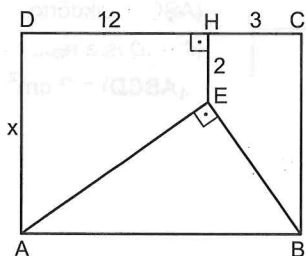
20.



(ABCD) dikdörtgen
(ABCD is a rectangle)
|AB| = x = ? cm

- A) 24 B) 18 C) 16 D) 12 E) 10

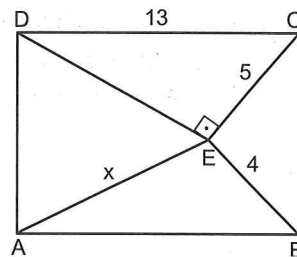
21.



(ABCD) dikdörtgen
(ABCD is a rectangle)
|AD| = x = ? cm

- A) 8 B) 9 C) 10 D) 11 E) 12

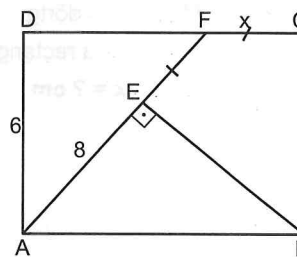
22.



(ABCD) dikdörtgen
(ABCD is a rectangle)
|AE| = x = ? cm

- A) 9 B) 12 C) $3\sqrt{15}$ D) $4\sqrt{14}$ E) $4\sqrt{15}$

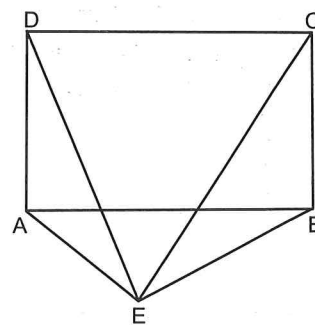
23.



(ABCD) dikdörtgen
(ABCD is a rectangle)
[EB] ⊥ [AF]
|FC| = x = ? cm

- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

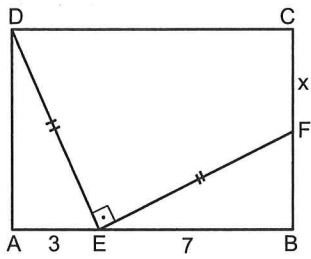
24.



(ABCD) dikdörtgen
(ABCD is a rectangle)
|EC| = 10 cm
|DE| = 8 cm
|EB| = 2|AE|
|EB| = ? cm

- A) $4\sqrt{3}$ B) $8\sqrt{5}$ C) $4\sqrt{6}$ D) $4\sqrt{7}$ E) $4\sqrt{10}$

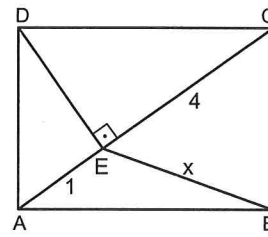
25.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|CF| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

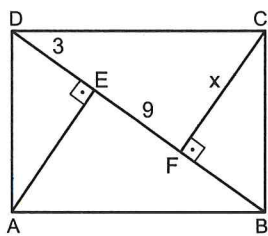
28.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|EB| = x = ? \text{ cm}$

- A) $\sqrt{13}$ B) $\sqrt{14}$ C) $\sqrt{15}$ D) $\sqrt{17}$ E) $\sqrt{19}$

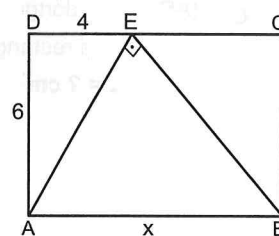
26.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|CF| = x = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

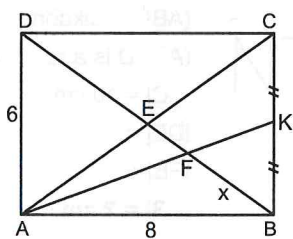
29.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AB| = x = ? \text{ cm}$

- A) 12 B) 13 C) 14 D) 15 E) 16

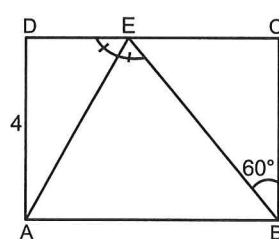
27.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|FB| = x = ? \text{ cm}$

- A) 2 B) $\frac{7}{3}$ C) $\frac{8}{3}$ D) 3 E) $\frac{10}{3}$

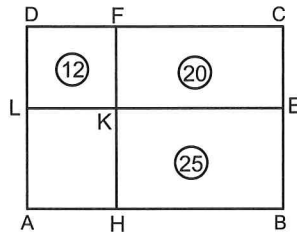
30.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 30 B) 32 C) 36 D) 40 E) 42

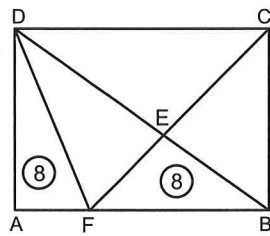
31.



(ABCD) dikdörtgen
(ABCD is a rectangle)
[AB] // [LE]
[FH] // [AD]
 $A(AHKL) = ? \text{ cm}^2$

- A) 9 B) 10 C) 12 D) 14 E) 15

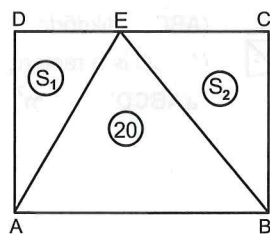
32.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[DB] \cap [FC] = \{E\}$
 $A(DEC) = ? \text{ cm}^2$

- A) 16 B) 14 C) 12 D) 10 E) 8

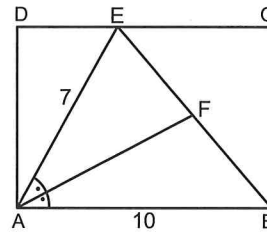
33.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $S_2 - S_1 = 2 \text{ cm}^2$
 $S_1 = ? \text{ cm}^2$

- A) 7 B) 8 C) 9 D) 10 E) 11

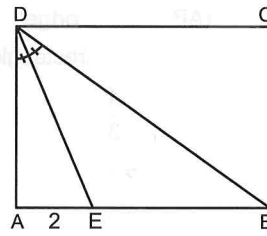
34.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(AEF) = 14 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 40 B) 44 C) 48 D) 56 E) 68

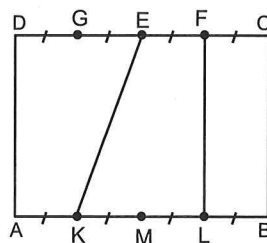
35.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AD| + |DB| = 14 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 14 B) 16 C) 20 D) 24 E) 28

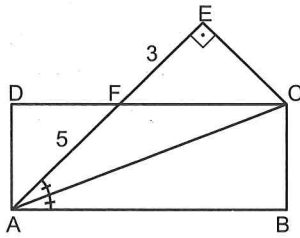
36.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\frac{A(KLFE)}{A(ABCD)} = ?$

- A) $\frac{3}{8}$ B) $\frac{4}{7}$ C) $\frac{5}{9}$ D) $\frac{6}{11}$ E) $\frac{7}{13}$

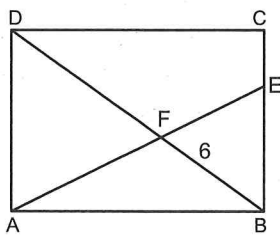
37.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 48 C) 42 D) 36 E) 32

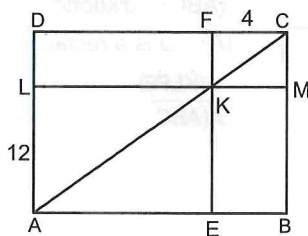
38.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $\frac{|BC|}{|BE|} = \frac{4}{3}$
 $|DF| = ? \text{ cm}$

- A) 8 B) 9 C) 10 D) 11 E) 12

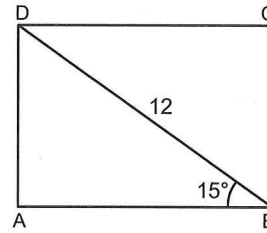
39.



(ABCD) dikdörtgen
(ABCD is a rectangle)
[LM] // [AB]
[FE] // [AD]
 $A(LKFD) = ? \text{ cm}^2$

- A) 36 B) 40 C) 44 D) 48 E) 52

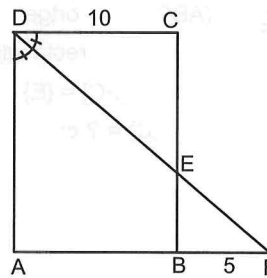
40.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 32 B) 36 C) 40 D) 44 E) 48

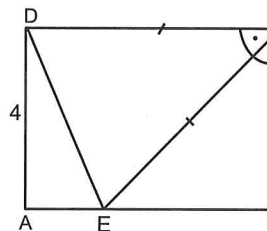
41.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AD| = ? \text{ cm}$

- A) 10 B) 12 C) 13 D) 14 E) 15

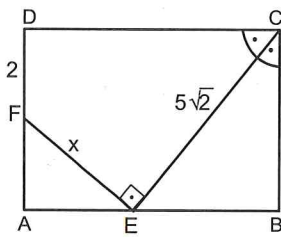
42.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) $12\sqrt{2}$ B) $15\sqrt{2}$ C) $16\sqrt{2}$ D) 24 E) 32

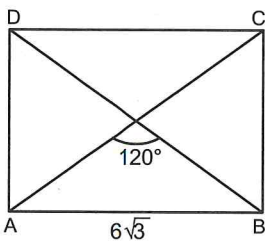
43.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|FE| = x = ? \text{ cm}$

- A) $4\sqrt{2}$ B) $2\sqrt{7}$ C) $3\sqrt{2}$ D) 4 E) $2\sqrt{2}$

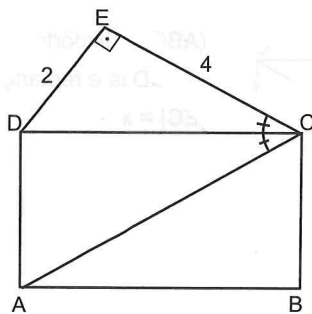
44.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) $18\sqrt{3}$ B) $24\sqrt{3}$ C) $28\sqrt{3}$
D) $32\sqrt{3}$ E) $36\sqrt{3}$

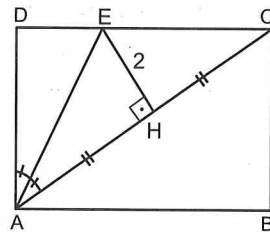
45.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 10 B) 9 C) 8 D) 7 E) 6

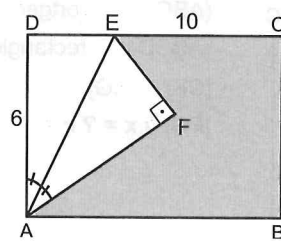
46.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) $14\sqrt{3}$ B) $13\sqrt{3}$ C) $12\sqrt{3}$
D) $11\sqrt{3}$ E) $10\sqrt{3}$

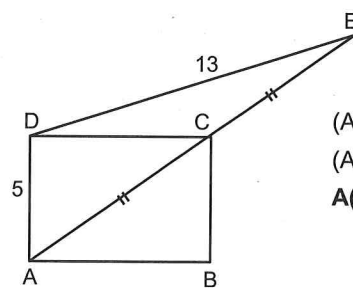
47.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCE) = ? \text{ cm}^2$

- A) 30 B) 35 C) 40 D) 50 E) 60

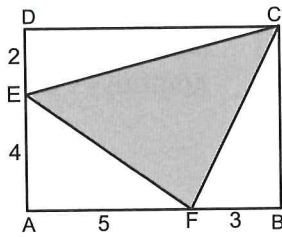
48.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 45 B) 30 C) 28 D) 25 E) 20

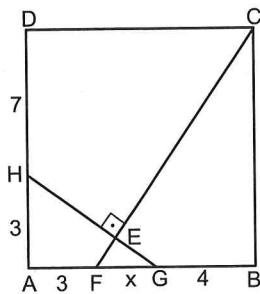
49.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(EFC) = ? \text{ cm}^2$

- A) 21 B) 20 C) 19 D) 18 E) 17

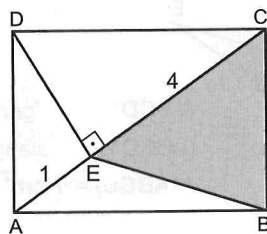
50.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[CF] \perp [HG]$
 $|FG| = x = ? \text{ cm}$

- A) 1,5 B) 2 C) 2,5 D) 3 E) 3,5

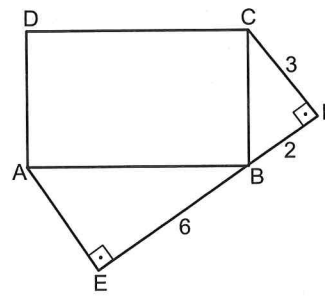
51.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[AC] \perp [DE]$
 $A(EBC) = ? \text{ cm}^2$

- A) 7 B) 6 C) 5 D) 4 E) 3

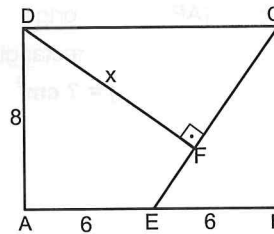
52.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[AE] \perp [EF]$
 $[CF] \perp [EF]$
 $A(ABCD) = ? \text{ cm}^2$

- A) 18 B) 20 C) 22 D) 24 E) 26

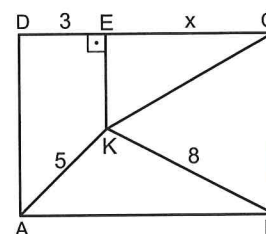
53.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[DF] \perp [EC]$
 $|DF| = x = ? \text{ cm}$

- A) 10,8 B) 10,2 C) 10 D) 9,6 E) 9,4

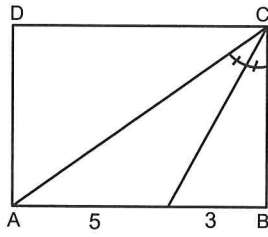
54.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|EC| = x = ? \text{ cm}$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) $5\sqrt{2}$ E) $3\sqrt{6}$

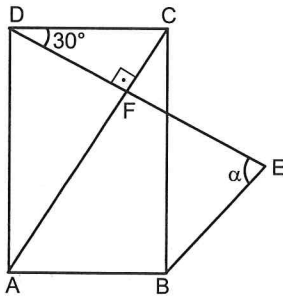
55.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = ? \text{ cm}^2$

- A) 42 B) 48 C) 60 D) 72 E) 84

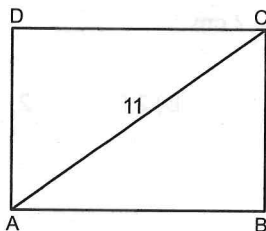
56.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|DE| = |AC|$
 $\alpha = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

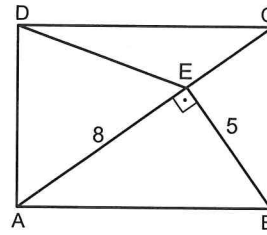
57.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AB| + |BC| = 15 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 26 B) 36 C) 48 D) 50 E) 52

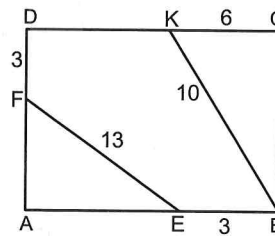
58.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[AC] \perp [BE]$
 $A(AED) = ? \text{ cm}^2$

- A) 16 B) 18 C) 20 D) 24 E) 28

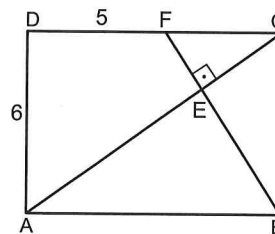
59.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(EBKDF) = ? \text{ cm}^2$

- A) 60 B) 66 C) 72 D) 76 E) 80

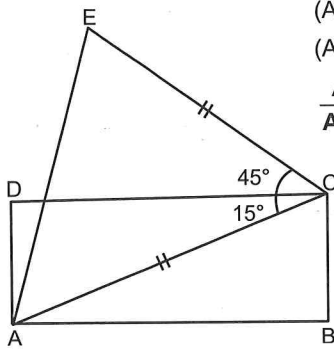
60.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $[AC] \perp [BF]$
 $A(ABCD) = ? \text{ cm}^2$

- A) 42 B) 48 C) 54 D) 60 E) 66

61.

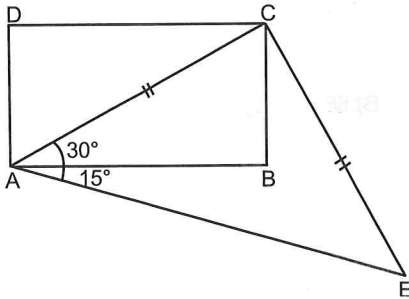


(ABCD) dikdörtgen
(ABCD is a rectangle)

$$\frac{A(ECA)}{A(ABCD)} = ?$$

- A) $\sqrt{2}$ B) $\sqrt{3}$ C) $\sqrt{6}$ D) $2\sqrt{3}$ E) $2\sqrt{6}$

62.

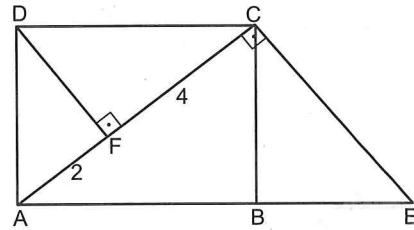


(ABCD) dikdörtgen (ABCD is a rectangle)

$$\frac{A(ACE)}{A(ABCD)} = ?$$

- A) $\frac{2\sqrt{3}}{3}$ B) $\frac{\sqrt{3}}{3}$ C) $\frac{3\sqrt{3}}{4}$
D) $\frac{4\sqrt{3}}{3}$ E) $\sqrt{3}$

63.

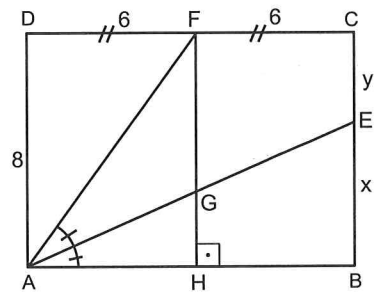


(ABCD) dikdörtgen (ABCD is a rectangle)

$$|CE| = ? \text{ cm}$$

- A) $4\sqrt{2}$ B) $3\sqrt{2}$ C) $\sqrt{2}$
D) $\sqrt{10}$ E) 3

64.



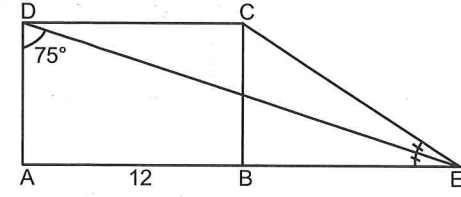
(ABCD) dikdörtgen / (ABCD is a rectangle)

$$[AE] \cap [FH] = \{G\}$$

$$x - y = ? \text{ cm}$$

- A) 4 B) 3,5 C) 3 D) 2,5 E) 2

65.



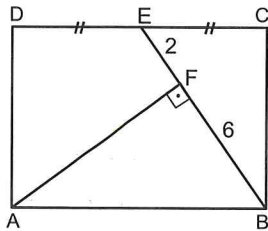
(ABCD) dikdörtgen (ABCD is a rectangle)

$m(\hat{A}DE) = 75^\circ$

$A(ABCD) = ? \text{ cm}^2$

- A) 96 B) 92 C) 88 D) 80 E) 72

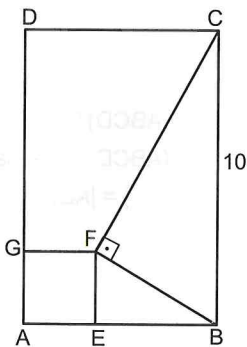
66.



(ABCD) dikdörtgen
(ABCD is a rectangle)
[AF] \perp [EB]
 $A(ABCD) = ? \text{ cm}^2$

- A) $18\sqrt{5}$ B) $20\sqrt{5}$ C) $16\sqrt{15}$
D) 48 E) 64

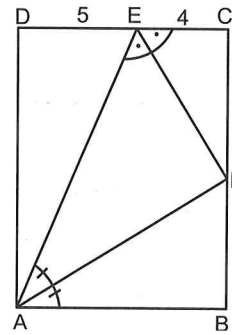
67.



(ABCD) dikdörtgen
(ABCD is a rectangle)
(AEFG) kare
(AEFG square)
 $A(AEFG) = 4 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 50 B) 60 C) 70 D) 80 E) 90

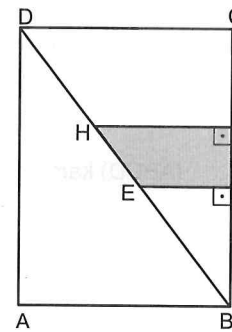
68.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|AD| = ? \text{ cm}$

- A) 12 B) 13 C) 14 D) 15 E) 16

69.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $|FB| = |CG| = 2 \cdot |GF|$
 $A(EFGH) = 5 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 50 B) 45 C) 40 D) 35 E) 30

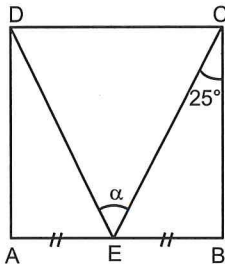
CEVAPLAR / ANSWERS					
1-D	2-D	3-B	4-C	5-D	6-E
7-D	8-E	9-C	10-C	11-B	12-B
13-E	14-B	15-D	16-B	17-A	18-B
19-E	20-A	21-A	22-C	23-C	24-A
25-B	26-C	27-E	28-A	29-B	30-B
31-E	32-A	33-C	34-E	35-E	36-A
37-E	38-A	39-D	40-B	41-E	42-C
43-C	44-E	45-A	46-C	47-E	48-B
49-A	50-B	51-D	52-E	53-D	54-C
55-B	56-D	57-E	58-C	59-B	60-C
61-B	62-A	63-B	64-A	65-E	66-C
67-B	68-A	69-A			

ÜNİTE UNIT 2

KARE SQUARE

BÖLÜM CHAPTER 6

1.

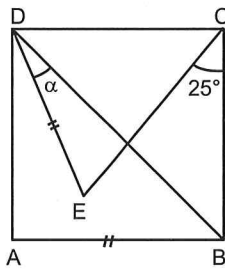


(ABCD) kare
(ABCD is a square)

$$m(\hat{D}E C) = \alpha = ?$$

- A) 40 B) 50 C) 55 D) 60 E) 65

2.

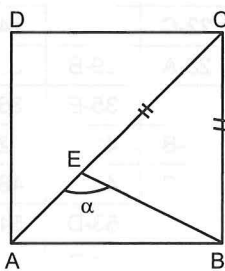


(ABCD) kare
(ABCD is a square)

$$\alpha = ?$$

- A) 25 B) 20 C) 15 D) 10 E) 5

3.



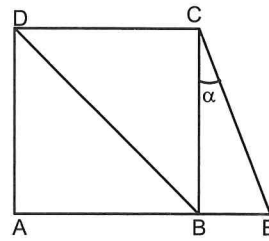
(ABCD) kare
(ABCD is a square)

$$[AC] \cap [EB] = \{E\}$$

$$\alpha = ?$$

- A) 102,5 B) 106,5 C) 110,5
D) 112,5 E) 120,5

4.



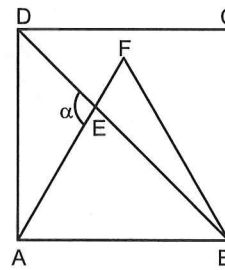
(ABCD) kare
(ABCD is a square)

$$|AE| = |DB|$$

$$\alpha = ?$$

- A) 15 B) 20 C) 22,5 D) 25 E) 27,5

5.



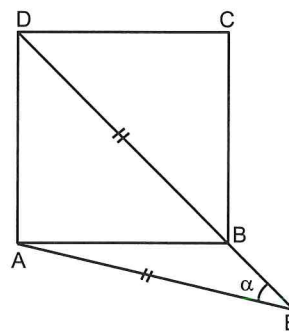
(ABCD) kare
(ABCD is a square)

$$|AF| = |FB| = |BC|$$

$$\alpha = ?$$

- A) 75 B) 90 C) 105 D) 120 E) 135

6.



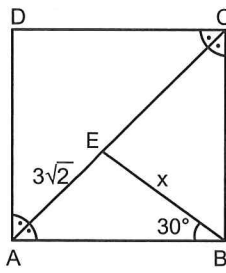
(ABCD) kare
(ABCD is a square)

$$|DB| = |AE|$$

$$m(\hat{A}E D) = \alpha = ?$$

- A) 20 B) 30 C) 40 D) 50 E) 60

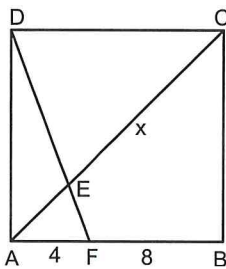
7.



(ABCD) kare
(ABCD is a square)
 $|EB| = x = ? \text{ cm}$

- A) 3 B) $2\sqrt{3}$ C) 4 D) $3\sqrt{2}$ E) 6

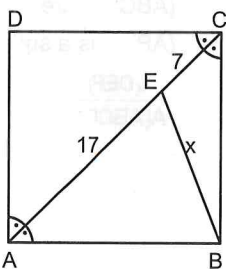
8.



(ABCD) kare
(ABCD is a square)
 $[AC] \cap [DF] = \{E\}$
 $|EC| = x = ? \text{ cm}$

- A) $7\sqrt{2}$ B) $8\sqrt{2}$ C) $9\sqrt{2}$ D) $10\sqrt{2}$ E) $11\sqrt{2}$

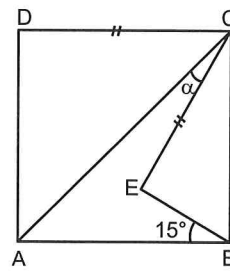
9.



(ABCD) kare
(ABCD is a square)
 $|EB| = x = ? \text{ cm}$

- A) 10 B) 12 C) 13 D) 15 E) 17

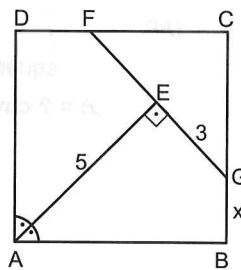
10.



(ABCD) kare
(ABCD is a square)
 $\alpha = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

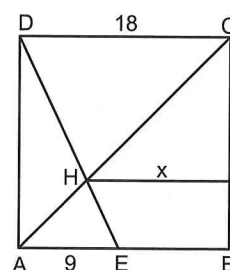
11.



(ABCD) kare
(ABCD is a square)
 $[AE] \perp [FG]$
 $|GB| = x = ? \text{ cm}$

- A) $\sqrt{2}$ B) $12\sqrt{2}$ C) 4 D) $3\sqrt{2}$ E) 5

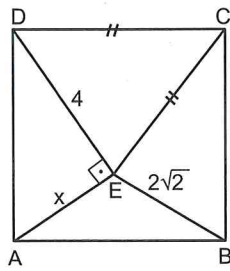
12.



(ABCD) kare
(ABCD is a square)
 $|HF| = x = ? \text{ cm}$

- A) 9 B) 10 C) 11 D) 12 E) 13

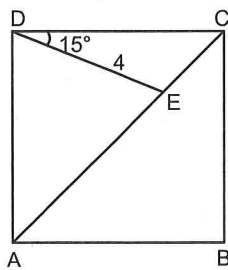
13.



(ABCD) kare
(ABCD is a square)
 $|AE| = x = ?$ cm

- A) $\sqrt{2}$ B) 2 C) 1 D) $\sqrt{3}$ E) 3

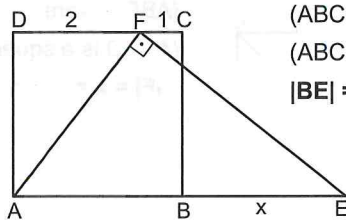
14.



(ABCD) kare
(ABCD is a square)
 $A(ABCD) = ?$ cm²

- A) 12 B) 16 C) 20 D) 24 E) 28

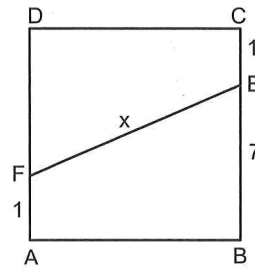
15.



(ABCD) kare
(ABCD is a square)
 $|BE| = x = ?$ cm

- A) 2,5 B) 3 C) 3,5 D) 4 E) 4,5

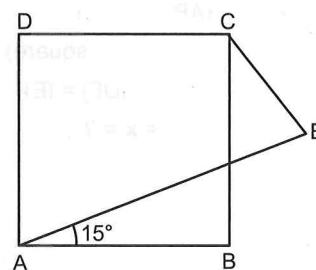
16.



(ABCD) kare
(ABCD is a square)
 $|EF| = x = ?$ cm

- A) 5 B) 6 C) 8 D) 9 E) 10

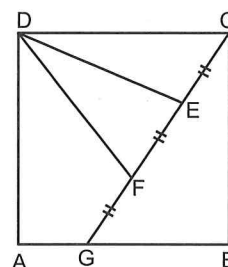
17.



(ABCD) kare
(ABCD is a square)
 $|AE| = \sqrt{2} |AB|$
 $m(\hat{AEC}) = ?$

- A) 45 B) 55 C) 65 D) 75 E) 85

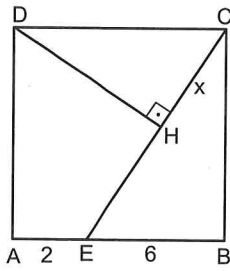
18.



(ABCD) kare
(ABCD is a square)
 $\frac{A(DEF)}{A(ABCD)} = ?$

- A) $\frac{1}{3}$ B) $\frac{1}{4}$ C) $\frac{1}{5}$ D) $\frac{1}{6}$ E) $\frac{1}{7}$

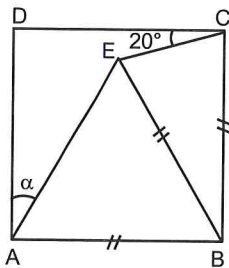
19.



(ABCD) kare
 (ABCD is a square)
 $[DH] \perp [EC]$
 $|HC| = x = ? \text{ cm}$

- A) 4,8 B) 4,2 C) 3,6 D) 3,2 E) 3

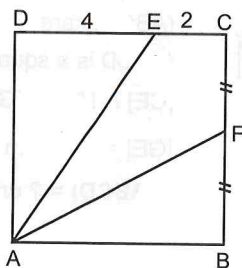
20.



(ABCD) kare
 (ABCD is a square)
 $\alpha = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

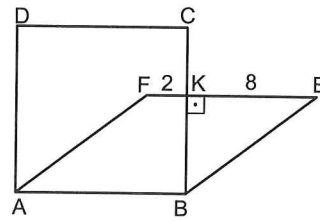
21.



(ABCD) kare
 (ABCD is a square)
 $A(AFCE) = ? \text{ cm}^2$

- A) 8 B) 12 C) 15 D) 18 E) 20

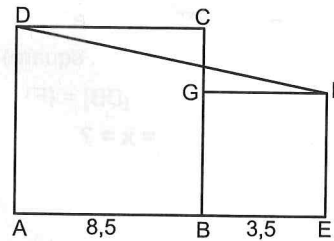
22.



(ABCD) kare
 (ABCD is a square)
 $[BC] \perp [FE]$
 $|AF| = |FE| = |EB| = |BA|$
 $\frac{A(ABCD)}{A(ABEF)} = ?$

- A) $\frac{7}{5}$ B) $\frac{3}{2}$ C) $\frac{5}{3}$ D) 2 E) 3

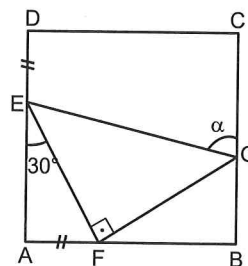
23.



(ABCD) kare
 (ABCD is a square)
 (BEFG) kare
 (BEFG is a square)
 $|DF| = ? \text{ cm}$

- A) 8 B) 10 C) 12 D) 13 E) 15

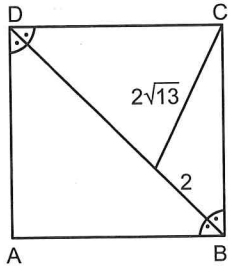
24.



(ABCD) kare
 (ABCD is a square)
 $\alpha = ?$

- A) 60 B) 75 C) 80 D) 85 E) 90

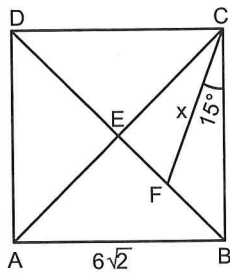
25.



(ABCD) kare
(ABCD is a square)
 $|AB| = ? \text{ cm}$

- A) $3\sqrt{2}$ B) $3\sqrt{3}$ C) 6 D) $4\sqrt{3}$ E) $6\sqrt{2}$

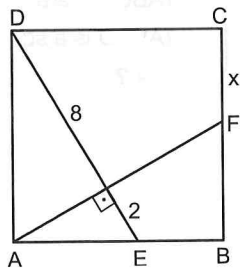
26.



(ABCD) kare
(ABCD is a square)
 $[AC] \cap [DB] = \{E\}$
 $|CF| = x = ? \text{ cm}$

- A) $2\sqrt{3}$ B) 4 C) 5 D) 6 E) $4\sqrt{3}$

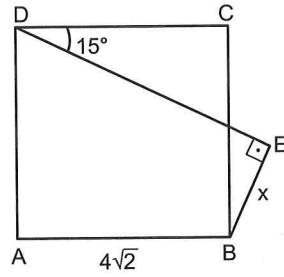
27.



(ABCD) kare
(ABCD is a square)
 $[DE] \perp [AF]$
 $|CF| = x = ? \text{ cm}$

- A) $\sqrt{5}$ B) $2\sqrt{5}$ C) $2\sqrt{7}$ D) 6 E) $3\sqrt{5}$

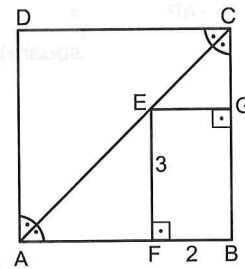
28.



(ABCD) kare
(ABCD is a square)
 $|EB| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

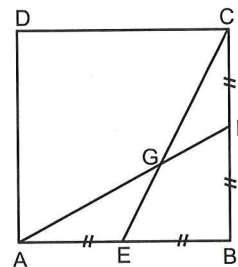
29.



(ABCD) kare
(ABCD is a square)
 $|AC| = ? \text{ cm}$

- A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) $5\sqrt{2}$ D) 7 E) $6\sqrt{2}$

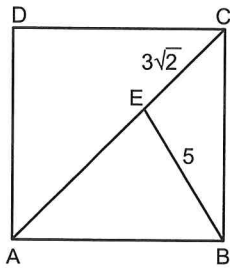
30.



(ABCD) kare
(ABCD is a square)
 $[CE] \cap [AF] = \{G\}$
 $|GE| = 2\sqrt{5} \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 156 B) 144 C) 121 D) 100 E) 81

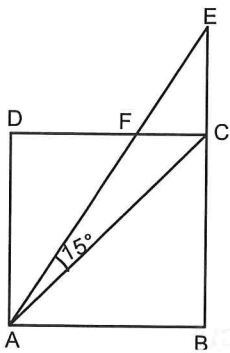
31.



(ABCD) kare
 (ABCD is a square)
 $[BE] \perp [AC] = \{E\}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 30 B) 36 C) 40 D) 49 E) 64

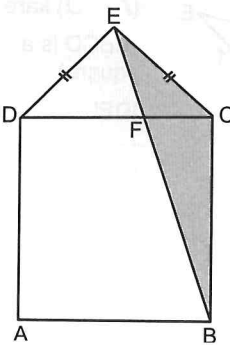
32.



(ABCD) kare
 (ABCD is a square)
 $m(\hat{EAC}) = 15^\circ$
 $|AE| = 12 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 36 B) 40 C) 49 D) 64 E) 72

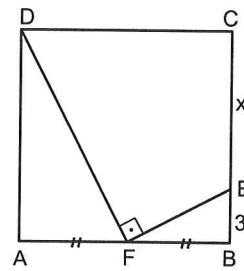
33.



(ABCD) kare
 (ABCD is a square)
 $A(BEC) = 16 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 24 B) 32 C) 36 D) 48 E) 64

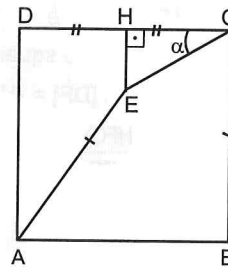
34.



(ABCD) kare
 (ABCD is a square)
 $|CE| = x = ? \text{ cm}$

- A) 12 B) 10 C) 9 D) 8 E) 6

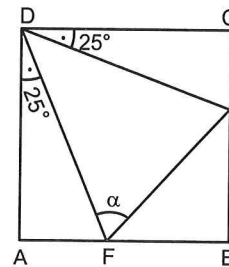
35.



(ABCD) kare
 (ABCD is a square)
 $m(\hat{HCE}) = \alpha = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

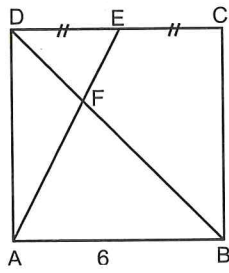
36.



(ABCD) kare
 (ABCD is a square)
 $m(\hat{DFE}) = \alpha = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

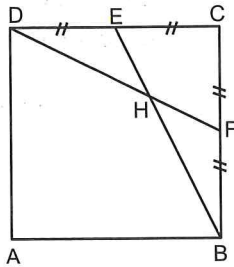
37.



(ABCD) kare
(ABCD is a square)
 $A(FBCE) = ? \text{ cm}^2$

- A) 9 B) 12 C) 15 D) 18 E) 21

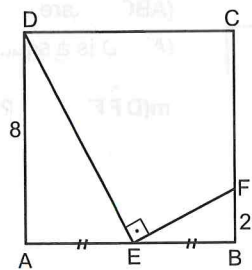
38.



(ABCD) kare
(ABCD is a square)
 $[EB] \cap [DF] = \{H\}$
 $\frac{A(EHFC)}{A(ABCD)} = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{1}{4}$ D) $\frac{1}{5}$ E) $\frac{1}{6}$

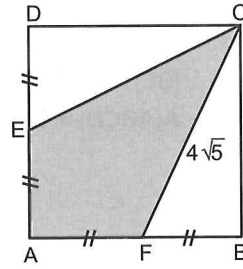
39.



(ABCD) kare
(ABCD is a square)
 $A(EFCD) = ? \text{ cm}^2$

- A) 48 B) 44 C) 40 D) 36 E) 32

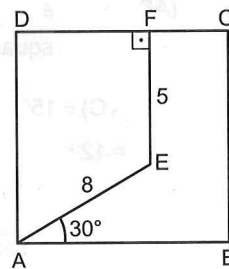
40.



(ABCD) kare
(ABCD is a square)
 $A(AFCE) = ? \text{ cm}^2$

- A) 32 B) 34 C) 36 D) 38 E) 40

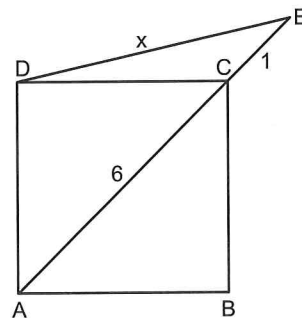
41.



(ABCD) kare
(ABCD is a square)
 $A(ABCD) = ? \text{ cm}^2$

- A) 49 B) 64 C) 81 D) 100 E) 121

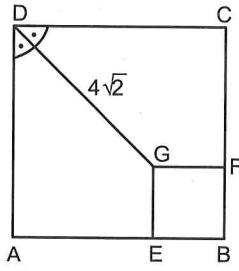
42.



(ABCD) kare
(ABCD is a square)
 $|DE| = x = ? \text{ cm}$

- A) $4\sqrt{2}$ B) $2\sqrt{7}$ C) $2\sqrt{6}$ D) 5 E) $2\sqrt{5}$

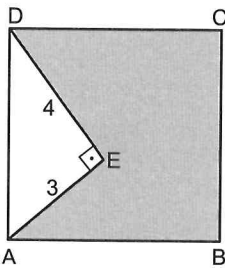
43.



(ABCD), (EBFG) birer kare
 (ABCD and EBFG are squares)
 $2|DC| = 3|CF|$
 $A(EBFG) = ? \text{ cm}^2$

- A) 2 B) 4 C) 8 D) 9 E) 12

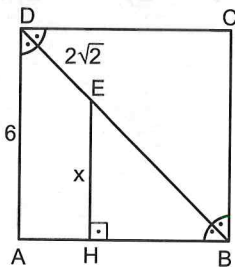
44.



(ABCD) kare
 (ABCD is a square)
 $A(ABCDE) = ? \text{ cm}^2$

- A) 21 B) 20 C) 19 D) 18 E) 17

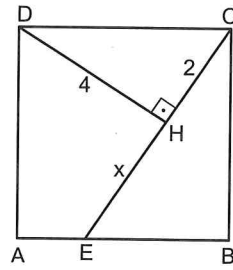
45.



(ABCD) kare
 (ABCD is a square)
 $|EH| = x = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $3\sqrt{2}$ C) 3 D) 4 E) 5

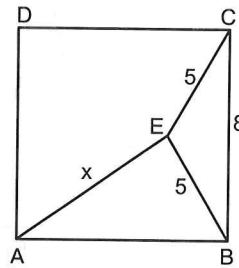
46.



(ABCD) kare
 (ABCD is a square)
 $[DH] \perp [EC]$
 $|EH| = x = ? \text{ cm}$

- A) 2,5 B) 3 C) 3,5 D) 4 E) 4,5

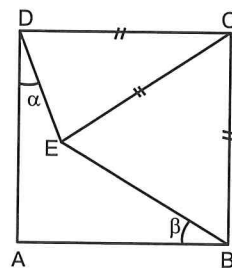
47.



(ABCD) kare
 (ABCD is a square)
 $|AE| = x = ? \text{ cm}$

- A) $\sqrt{41}$ B) $2\sqrt{10}$ C) 6 D) $4\sqrt{2}$ E) $2\sqrt{7}$

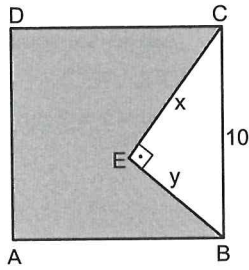
48.



(ABCD) kare
 (ABCD is a square)
 $\alpha + \beta = ?$

- A) 30 B) 35 C) 40 D) 45 E) 60

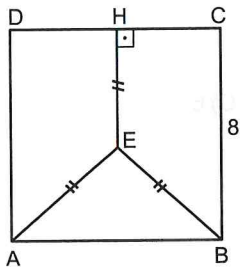
49.



(ABCD) kare
 (ABCD is a square)
 $x + y = 12$ cm
 $A(ABCE) = ? \text{ cm}^2$

- A) 79 B) 80 C) 81 D) 86 E) 89

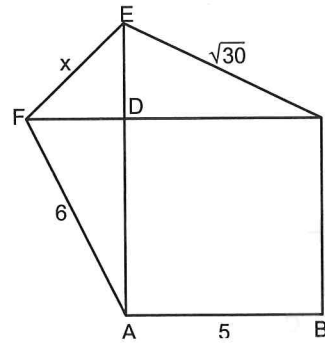
50.



(ABCD) kare
 (ABCD is a square)
 $|AE| = |BE| = |EH| = ? \text{ cm}$

- A) 5 B) 4 C) $2\sqrt{5}$ D) $2\sqrt{6}$ E) $2\sqrt{7}$

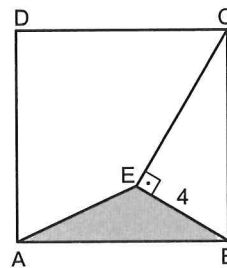
51.



(ABCD) kare
 (ABCD is a square)
 $[FC] \perp [EA]$
 $|EF| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) $2\sqrt{5}$ E) $2\sqrt{6}$

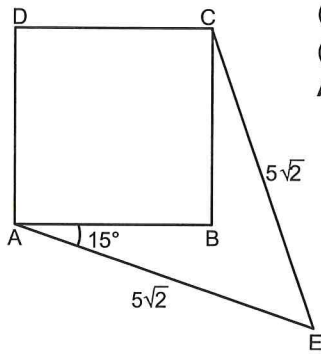
52.



(ABCD) kare
 (ABCD is a square)
 $A(EAB) = ? \text{ cm}^2$

- A) 4 B) 6 C) 8 D) 10 E) 12

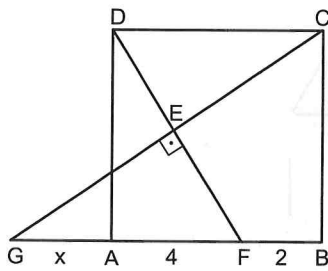
53.



(ABCD) kare
(ABCD is a square)
 $A(ABCD) = ? \text{ cm}^2$

- A) 20 B) 25 C) 30 D) 36 E) 48

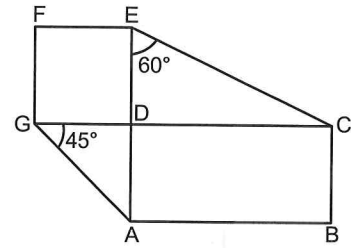
54.



(ABCD) kare
(ABCD is a square)
 $|AG| = x = ? \text{ cm}$

- A) 1,5 B) 2 C) 2,5 D) 3 E) 3,5

55.

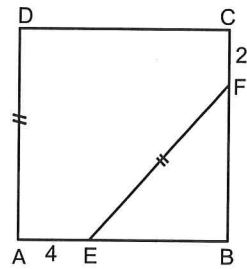


(ABCD) dikdörtgen, (ABCD is a rectangle)
(DEFG) kare, (DEFG is a square)

$$\frac{A(ABCD)}{A(DEFG)} = ?$$

- A) $\sqrt{3}$ B) $\sqrt{2}$ C) $\sqrt{6}$ D) 2 E) 3

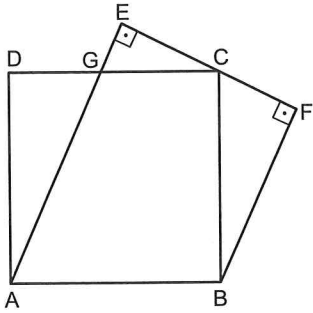
56.



(ABCD) kare
(ABCD is a square)
 $A(ABCD) = ? \text{ cm}^2$

- A) 70 B) 80 C) 90 D) 96 E) 100

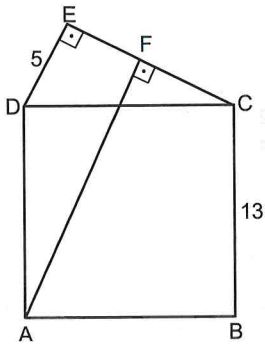
57.



(ABCD) kare
 (ABCD is a square)
 $[EF] \perp [BF]$
 $[EF] \perp [AE]$
 $A(EGC) = 1 \text{ cm}^2$
 $A(CBF) = 4 \text{ cm}^2$
 $|AG| = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

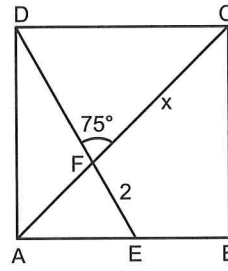
58.



(ABCD) kare
 (ABCD is a square)
 $[AF] \perp [EC]$
 $|AF| = ? \text{ cm}$

- A) 17 B) 18 C) 19 D) 20 E) 21

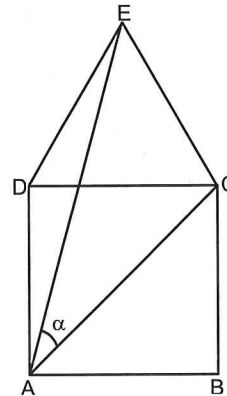
59.



(ABCD) kare
 (ABCD is a square)
 $[AC] \cap [DE] = \{F\}$
 $|FC| = x = ? \text{ cm}$

- A) $2\sqrt{2}$ B) $3\sqrt{2}$ C) $4\sqrt{2}$ D) 4 E) 5

60.

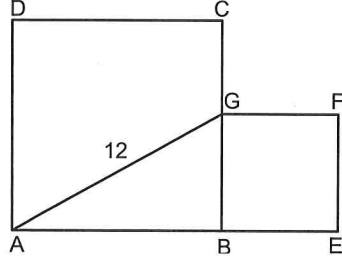


(ABCD) kare
 (ABCD is a square)
 (EDC) eşkenar üçgen
 (EDC is an equilateral triangle)

$$m(\widehat{EAC}) = \alpha = ?$$

- A) 15 B) 20 C) 22,5 D) 30 E) 37,5

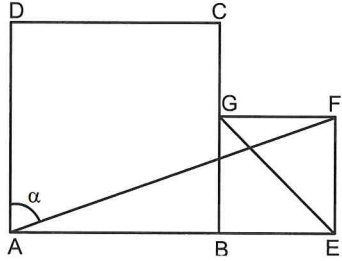
61.



(ABCD) kare, (BEFG) kare
 (ABCD and BEFG are squares)
 $A(ABCD) + A(BEFG) = ? \text{ cm}^2$

- A) 160 B) 144 C) 120 D) 100 E) 88

62.

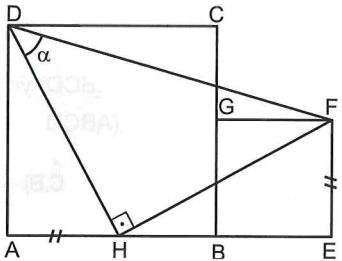


(ABCD) ve (BEFG) birer kare
 (ABCD and BEFG are squares)

$|DC| = |EG|$, $m(\widehat{DAF}) = \alpha = ?$

- A) 75 B) 67,5 C) 65 D) 62,5 E) 57,5

63.

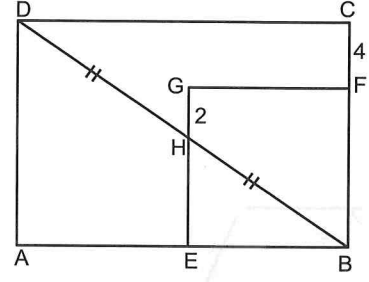


(ABCD) ve (BEFG) birer kare
 (ABCD and BEFG are squares)

$m(\widehat{HDF}) = \alpha = ?$

- A) 30 B) 36 C) 45 D) 50 E) 60

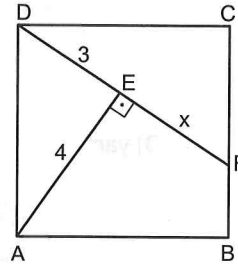
64.



(ABCD) dikdörtgen, (EBCF) kare
 (ABCD is a rectangle), (EBCF is a square)
 $|AD| = ? \text{ cm}$

- A) 12 B) 10 C) 9 D) 8 E) 6

65.



(ABCD) kare
 (ABCD is a square)
 $[DF] \perp [AE]$
 $|EF| = x = ? \text{ cm}$

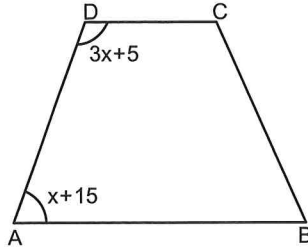
- A) $\frac{12}{5}$ B) $\frac{13}{5}$ C) $\frac{13}{4}$ D) $\frac{17}{5}$ E) $\frac{18}{5}$

CEVAPLAR / ANSWERS

1-B	2-E	3-D	4-C	5-C	6-B
7-E	8-C	9-C	10-B	11-A	12-D
13-B	14-D	15-C	16-E	17-D	18-D
19-A	20-B	21-C	22-C	23-D	24-B
25-E	26-E	27-B	28-B	29-C	30-B
31-D	32-A	33-E	34-C	35-B	36-E
37-C	38-E	39-B	40-A	41-C	42-D
43-B	44-C	45-D	46-B	47-A	48-D
49-E	50-A	51-B	52-C	53-B	54-D
55-A	56-E	57-C	58-A	59-B	60-D
61-B	62-B	63-C	64-A	65-C	

ÜNİTE 2
UNIT 2
YAMUK
TRAPEZOID
BÖLÜM 7
CHAPTER 7

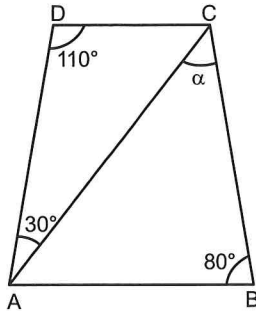
1.



(ABCD) yamuk
 (ABCD is a trapezoid)
 $x = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

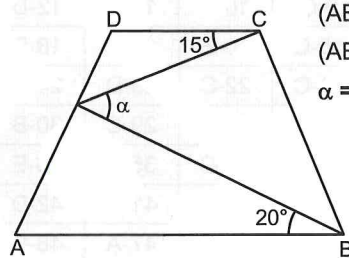
2.



(ABCD) yamuk
 (ABCD is a trapezoid)
 $\alpha = ?$

- A) 60 B) 70 C) 80 D) 90 E) 100

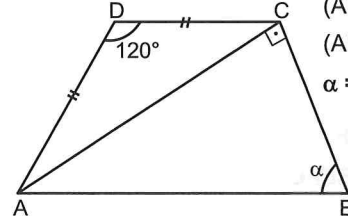
3.



(ABCD) yamuk
 (ABCD is a trapezoid)
 $\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

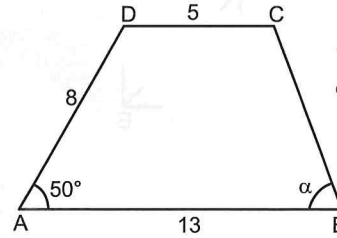
4.



(ABCD) yamuk
 (ABCD is a trapezoid)
 $\alpha = ?$

- A) 30 B) 40 C) 50 D) 60 E) 70

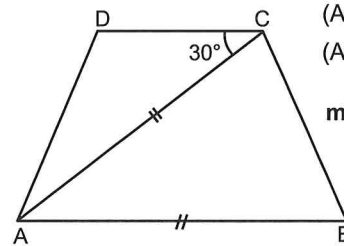
5.



(ABCD) yamuk
 (ABCD is a trapezoid)
 $\alpha = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

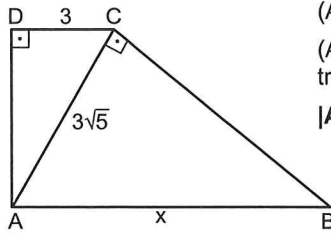
6.



(ABCD) yamuk
 (ABCD is a trapezoid)
 $m(\hat{A C B}) = ?$

- A) 65 B) 70 C) 75 D) 80 E) 85

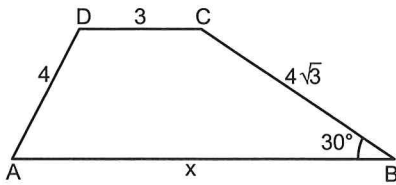
7.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $|AB| = x = ? \text{ cm}$

- A) 20 B) 18 C) 17 D) 16 E) 15

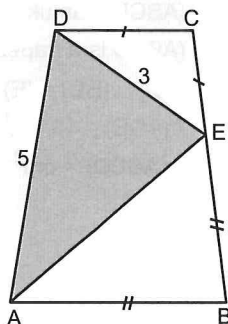
8.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB|=x=? \text{ cm}$

- A) 10 B) 11 C) 12 D) 13 E) 14

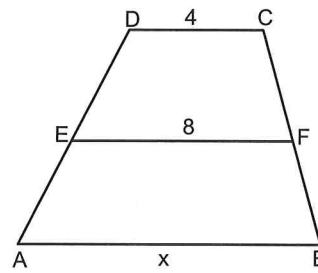
9.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(\triangle ADE) = ? \text{ cm}^2$

- A) 6 B) 7 C) 8 D) 9 E) 10

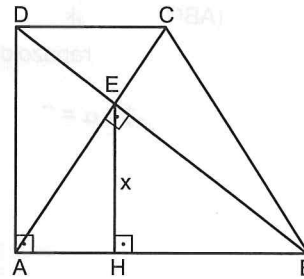
10.



(ABCD) yamuk
(ABCD is a trapezoid)
 $[EF] \parallel [AB]$
 $2|FB| = |CF|$
 $|AB| = x = ? \text{ cm}$

- A) 7 B) 9 C) 10 D) 11 E) 13

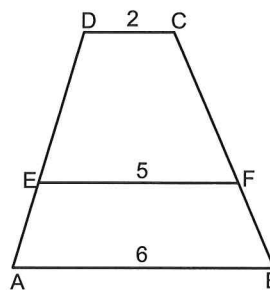
11.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB| = 6 \text{ cm}$
 $|DC| = 3 \text{ cm}$
 $|EH| = x = ? \text{ cm}$

- A) $2\sqrt{2}$ B) 3 C) 2 D) $\sqrt{2}$ E) $\sqrt{5}$

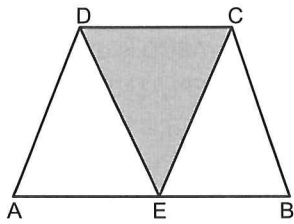
12.



(ABCD) yamuk
(ABCD is a trapezoid)
 $\frac{A(EFCD)}{A(ABFE)} = ?$

- A) $\frac{2}{3}$ B) $\frac{4}{3}$ C) $\frac{21}{11}$ D) $\frac{19}{7}$ E) $\frac{24}{11}$

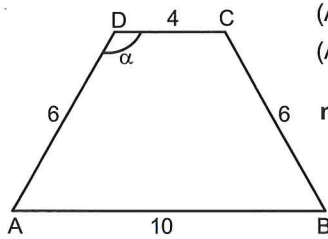
13.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|DC| = 3$ cm
 $|AB| = 5$ cm
 $\frac{A(DEC)}{A(ABCD)} = ?$

- A) $\frac{3}{8}$ B) $\frac{2}{5}$ C) $\frac{3}{7}$ D) $\frac{3}{4}$ E) $\frac{3}{5}$

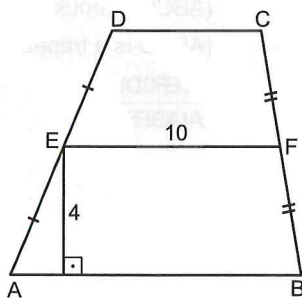
14.



(ABCD) yamuk
(ABCD is a trapezoid)
 $m(\hat{ADC}) = \alpha = ?$

- A) 110 B) 120 C) 125 D) 135 E) 150

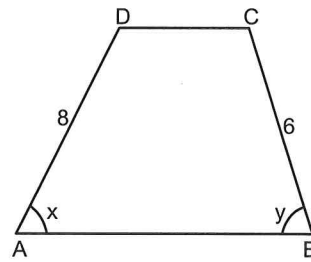
15.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(ABCD) = ?$ cm²

- A) 40 B) 50 C) 60 D) 70 E) 80

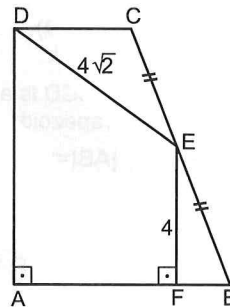
16.



(ABCD) yamuk
(ABCD is a trapezoid)
 $x + y = 150^\circ$
 $5|DC| = 3|AB|$
 $A(ABCD) = ?$ cm²

- A) 56 B) 52 C) 48 D) 44 E) 40

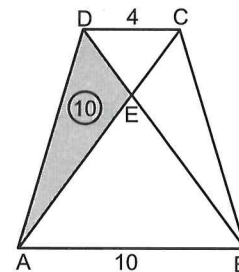
17.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(ABCD) = ?$ cm²

- A) 48 B) 42 C) 36 D) 32 E) 30

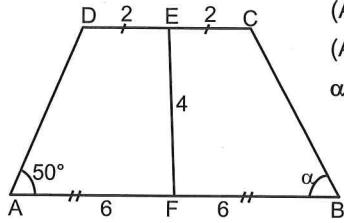
18.



(ABCD) yamuk
(ABCD is a trapezoid)
 $[AC] \cap [BD] = \{E\}$
 $A(ADE) = 10$ cm²
 $A(ABCD) = ?$ cm²

- A) 36 B) 49 C) 64 D) 72 E) 81

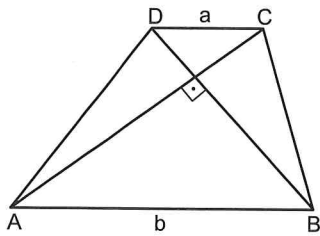
19.



(ABCD) yamuk
(ABCD is a trapezoid)
 $\alpha = ?$

- A) 30 B) 40 C) 50 D) 60 E) 70

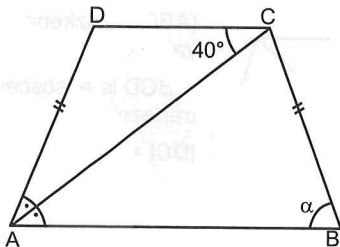
20.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AC| = 8$ cm
 $|DB| = 6$ cm
 $a + b = ?$ cm

- A) 6 B) 7 C) 8 D) 9 E) 10

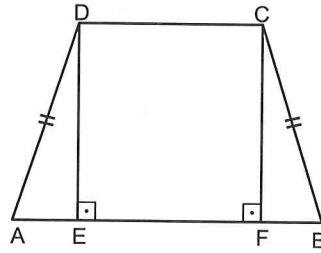
21.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $\alpha = ?$

- A) 50 B) 60 C) 70 D) 80 E) 90

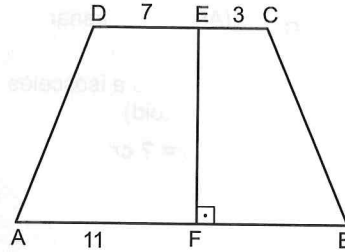
22.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $|FB| = 3$ cm
 $|AE| = 2x - 5$ cm
 $x = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

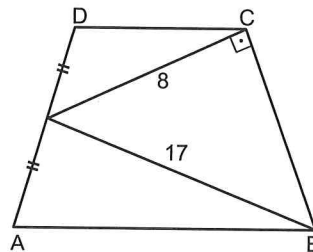
23.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $|FB| = ?$ cm

- A) 6 B) 7 C) 8 D) 9 E) 10

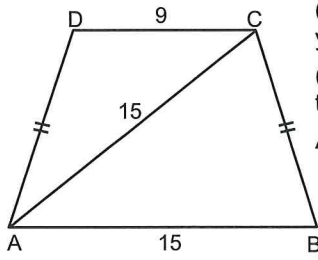
24.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(ABCD) = ?$ cm²

- A) 60 B) 75 C) 90 D) 100 E) 120

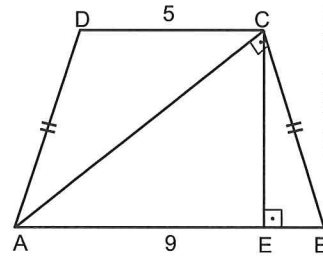
25.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 72 B) 108 C) 144 D) 180 E) 216

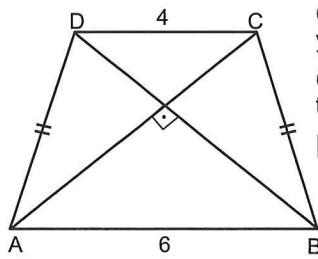
28.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $|CE| = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

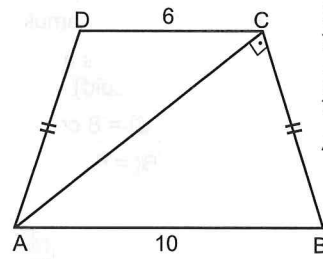
26.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $|AC| = ? \text{ cm}$

- A) $5\sqrt{2}$ B) $6\sqrt{2}$ C) $7\sqrt{2}$ D) 10 E) $8\sqrt{2}$

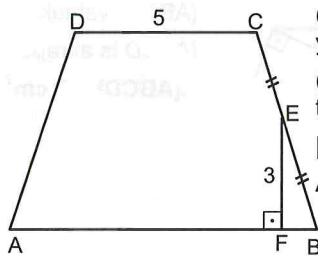
29.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 24 B) 30 C) 32 D) 48 E) 60

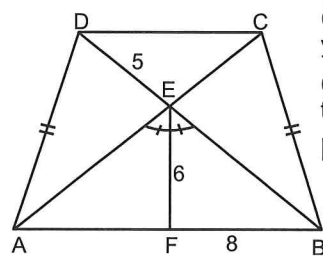
27.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $|FB| = 2 \text{ cm}$
 $|EF| = 3$
 $A(ABCD) = ? \text{ cm}^2$

- A) 36 B) 42 C) 48 D) 54 E) 60

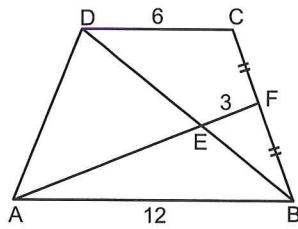
30.



(ABCD) ikizkenar yamuk
(ABCD is a isosceles trapezoid)
 $|DC| = ? \text{ cm}$

- A) 8 B) 9 C) 10 D) 11 E) 12

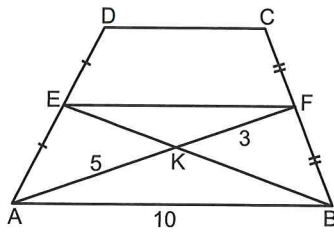
31.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AE| = ? \text{ cm}$

- A) 6 B) 8 C) 9 D) 10 E) 12

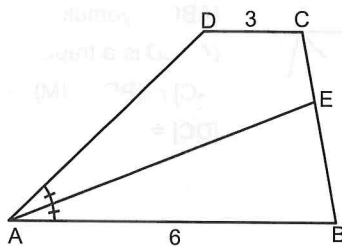
32.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|DC| = ? \text{ cm}$

- A) 1 B) 2 C) 3 D) 4 E) 5

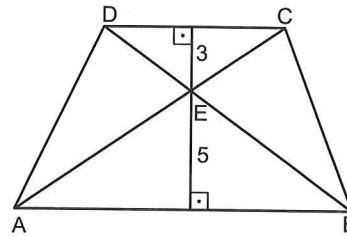
33.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|BE| = 2|CE|$
 $|AD| = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

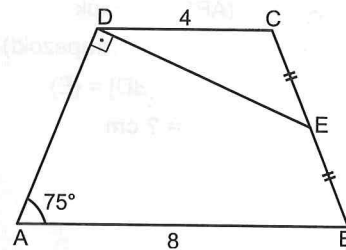
34.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB| = 15 \text{ cm}$
 $|CD| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

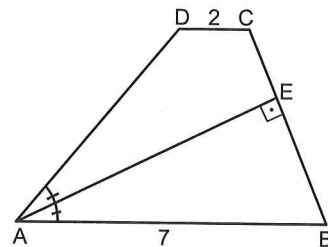
35.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 8 B) 10 C) 12 D) 16 E) 18

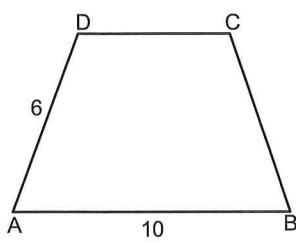
36.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|DA| = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

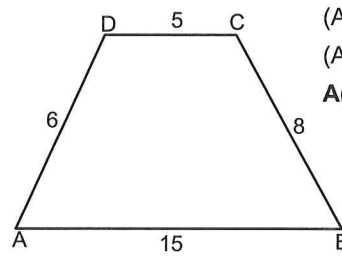
37.



(ABCD) yamuk
(ABCD is a trapezoid)
 $m(\hat{ADC}) = 2m(\hat{ABC})$
 $|DC| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

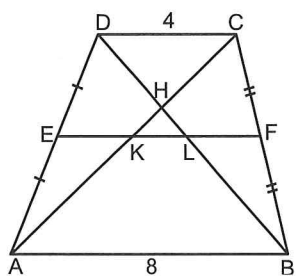
40.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 36 B) 48 C) 54 D) 60 E) 72

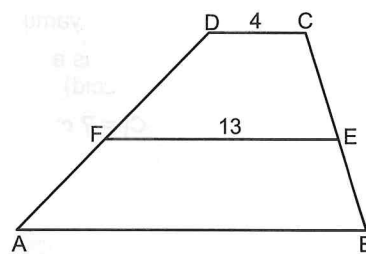
38.



(ABCD) yamuk
(ABCD is a trapezoid)
 $[AC] \cap [BD] = \{H\}$
 $|KL| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

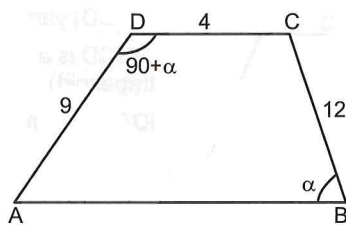
41.



(ABCD) yamuk
(ABCD is a trapezoid)
 $2|CE| = 3|EB|$
 $2|DF| = 3|FA|$
 $|AB| = ? \text{ cm}$

- A) 17 B) 18 C) 19 D) 20 E) 21

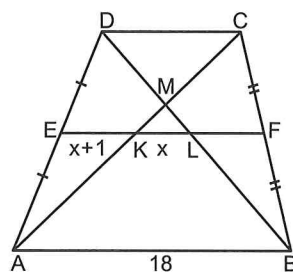
39.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB| = ? \text{ cm}$

- A) 15 B) 16 C) 17 D) 18 E) 19

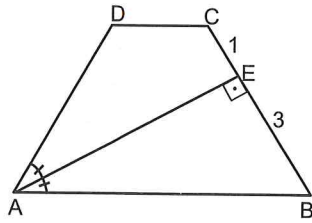
42.



(ABCD) yamuk
(ABCD is a trapezoid)
 $[AC] \cap [BD] = \{M\}$
 $|DC| = ? \text{ cm}$

- A) 8 B) 10 C) 12 D) 14 E) 16

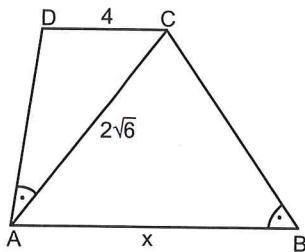
43.



(ABCD) ikizkenar yamuk
(ABCD is an isosceles trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) $12\sqrt{3}$ B) $11\sqrt{3}$ C) $10\sqrt{3}$
D) $9\sqrt{3}$ E) $8\sqrt{3}$

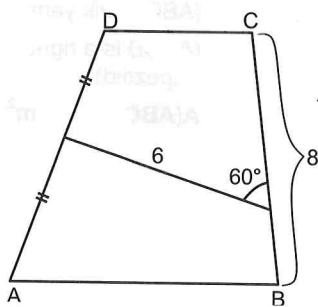
44.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB| = x = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 10

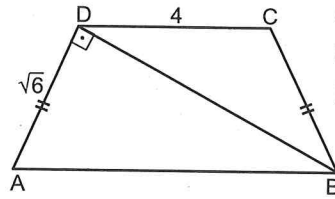
45.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) $28\sqrt{3}$ B) $26\sqrt{3}$ C) $24\sqrt{3}$
D) $20\sqrt{3}$ E) $18\sqrt{3}$

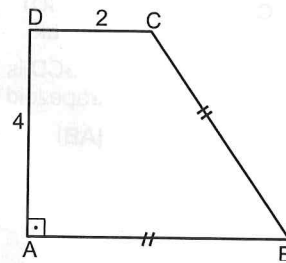
46.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

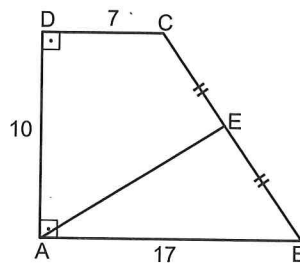
47.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 12 B) 13 C) 14 D) 15 E) 21

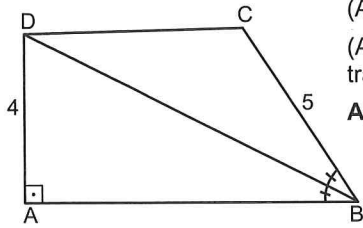
48.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $|AE| = ? \text{ cm}$

- A) 10 B) 11 C) 12 D) 13 E) 15

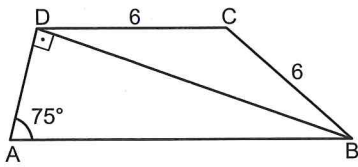
49.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 13 B) 15 C) 21 D) 26 E) 28

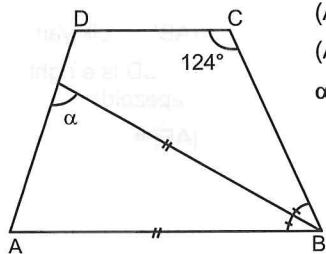
50.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AB| = ? \text{ cm}$

- A) 8 B) 9 C) 10 D) 12 E) 15

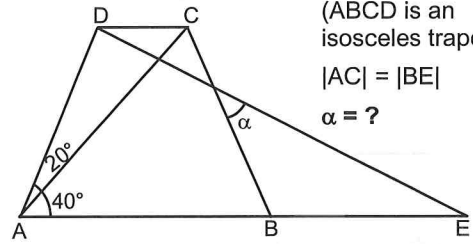
51.



(ABCD) yamuk
(ABCD is a trapezoid)
 $\alpha = ?$

- A) 82 B) 81 C) 76 D) 74 E) 72

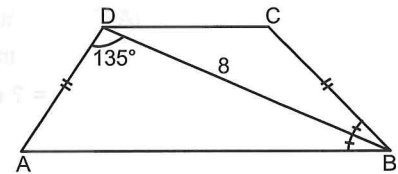
52.



(ABCD) ikizkenar yamuk
(ABCD is an isosceles trapezoid)
 $|AC| = |BE|$
 $\alpha = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

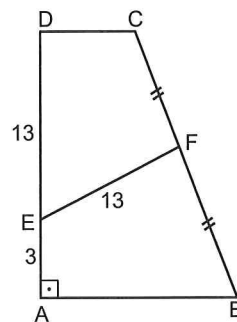
53.



(ABCD) ikizkenar yamuk
(ABCD is an isosceles trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 16 B) 18 C) 20 D) 24 E) 32

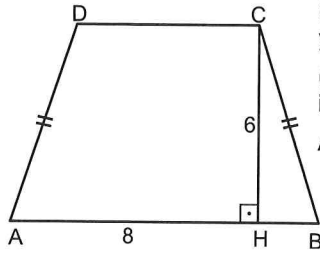
54.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 192 B) 196 C) 204 D) 216 E) 224

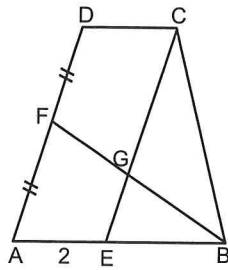
55.



(ABCD) ikizkenar yamuk
(ABCD is an isosceles trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 48 B) 54 C) 56 D) 60 E) 64

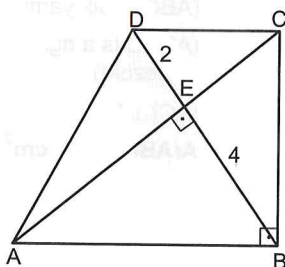
56.



(ABCD) yamuk
(ABCD is a trapezoid)
[AD] // [CE]
|GC| = 2 · |GE|
|EB| = ? cm

- A) 2 B) 3 C) 4 D) 5 E) 6

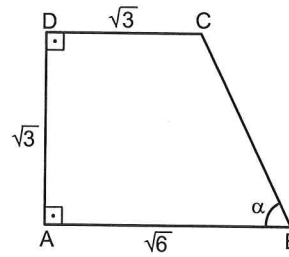
57.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) $24\sqrt{2}$ B) 48 C) 44 D) 36 E) $18\sqrt{2}$

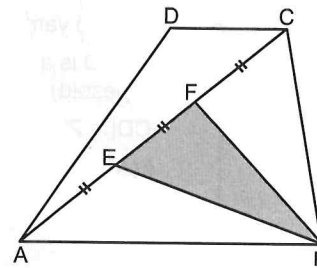
58.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $m(\hat{A}BC) = \alpha = ?$

- A) 30 B) 37,5 C) 40 D) 60 E) 67,5

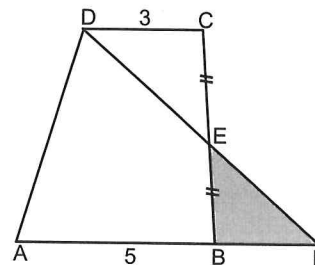
59.



(ABCD) yamuk
(ABCD is a trapezoid)
|AB| = 2|DC|
 $\frac{A(EFB)}{A(ABCD)} = ?$

- A) $\frac{1}{9}$ B) $\frac{2}{9}$ C) $\frac{3}{8}$ D) $\frac{3}{7}$ E) $\frac{2}{7}$

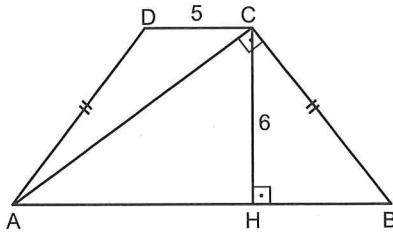
60.



(ABCD) yamuk
(ABCD is a trapezoid)
 $\frac{A(EFB)}{A(ABCD)} = ?$

- A) $\frac{2}{5}$ B) $\frac{3}{10}$ C) $\frac{3}{16}$ D) $\frac{1}{6}$ E) $\frac{1}{7}$

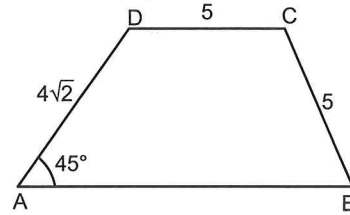
61.



(ABCD) ikizkenar yamuk
(ABCD is an isosceles trapezoid)
 $|CB| = ? \text{ cm}$

- A) $4\sqrt{3}$ B) 7 C) $5\sqrt{2}$ D) $2\sqrt{13}$ E) 10

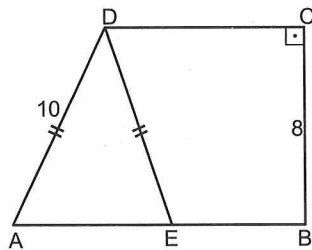
64.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(\text{ABCD}) = ? \text{ cm}^2$

- A) 36 B) 34 C) 32 D) 30 E) 28

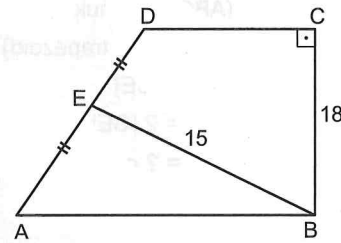
62.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|CD| = 2|EB|$
 $A(\text{ABCD}) = ? \text{ cm}^2$

- A) 75 B) 80 C) 90 D) 100 E) 120

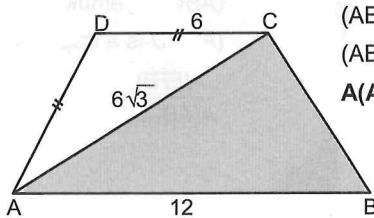
65.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(\text{ABCD}) = ? \text{ cm}^2$

- A) 156 B) 168 C) 192 D) 216 E) 224

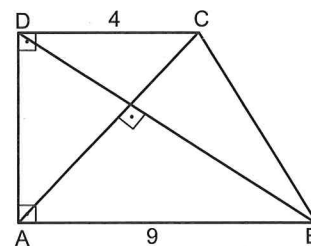
63.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(\text{ABC}) = ? \text{ cm}^2$

- A) $10\sqrt{3}$ B) $12\sqrt{3}$ C) $13\sqrt{3}$
D) $15\sqrt{3}$ E) $18\sqrt{3}$

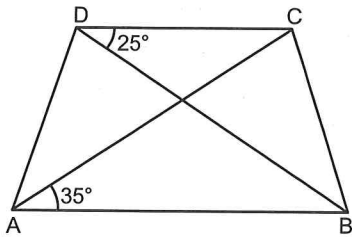
66.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $[AC] \perp [BD]$
 $A(\text{ABCD}) = ? \text{ cm}^2$

- A) 36 B) 39 C) 42 D) 45 E) 48

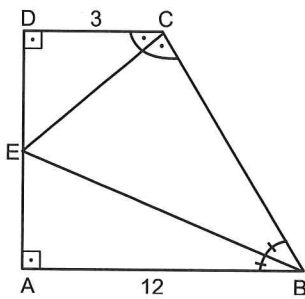
67.



(ABCD) yamuk
(ABCD is a trapezoid)
 $|AC| = 6\sqrt{3}$
 $|BD| = 8$
 $A(ABCD) = ? \text{cm}^2$

- A) 32 B) 36 C) 40 D) 48 E) 60

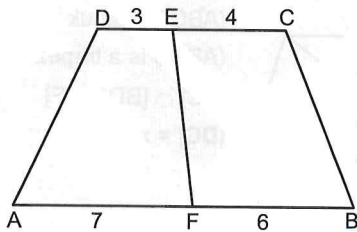
68.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(ABCD) = ? \text{cm}^2$

- A) 60 B) 75 C) 90 D) 105 E) 120

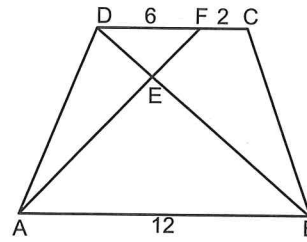
69.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(AFED) = 28 \text{ cm}^2$
 $A(FBCE) = ? \text{ cm}^2$

- A) 22 B) 24 C) 26 D) 28 E) 30

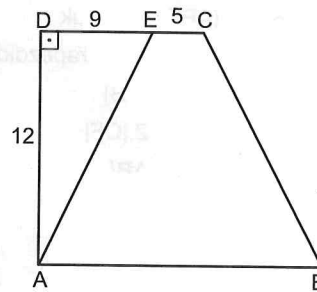
70.



(ABCD) yamuk
(ABCD is a trapezoid)
 $\frac{A(EBCF)}{A(AED)} = ?$

- A) $\frac{2}{3}$ B) $\frac{3}{4}$ C) 1 D) $\frac{3}{2}$ E) $\frac{4}{3}$

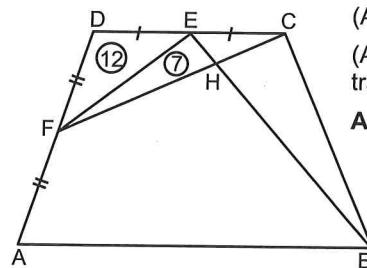
71.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $m(\hat{AEC}) = 2m(\hat{ABC})$
 $A(ABCE) = ? \text{ cm}^2$

- A) 120 B) 150 C) 180 D) 210 E) 240

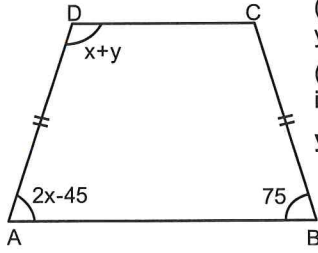
72.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(HBC) = ? \text{ cm}^2$

- A) 17 B) 18 C) 19 D) 20 E) 21

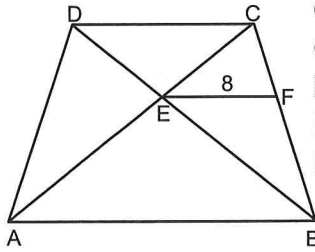
73.



(ABCD) ikizkenar
yamuk
(ABCD is an
isosceles trapezoid)
 $y = ?$

- A) 45 B) 50 C) 55 D) 60 E) 65

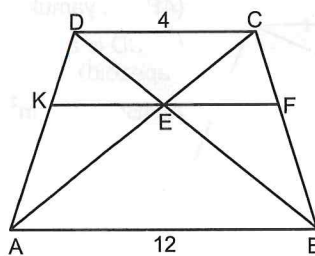
74.



(ABCD) yamuk
(ABCD is a trapezoid)
[EF] // [AB]
|BF| = 2 · |CF|
|DC| + |AB| = ? cm

- A) 28 B) 32 C) 36 D) 40 E) 48

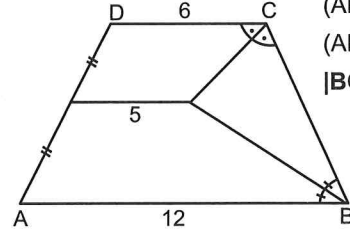
75.



(ABCD) yamuk
(ABCD is a trapezoid)
[KF] // [AB]
|KF| = ? cm

- A) 5 B) 6 C) 7 D) 8 E) 9

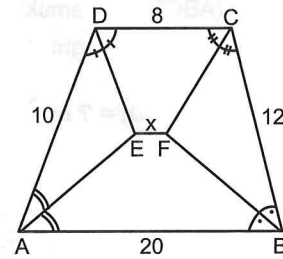
76.



(ABCD) yamuk
(ABCD is a trapezoid)
|BC| = ? cm

- A) 6 B) 8 C) 10 D) 12 E) 14

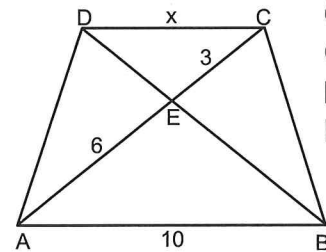
77.



(ABCD) yamuk
(ABCD is a trapezoid)
|EF| = x = ? cm

- A) 2 B) 3 C) 4 D) 5 E) 6

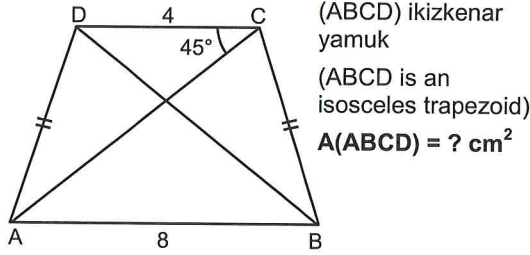
78.



(ABCD) yamuk
(ABCD is a trapezoid)
[AC] ∩ [BD] = {E}
|DC| = x = ? cm

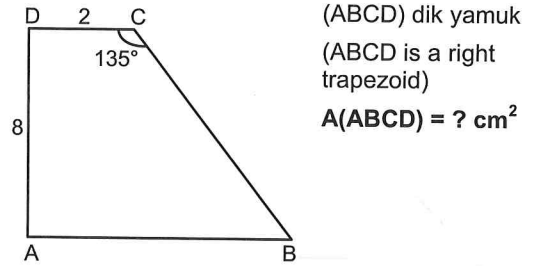
- A) 5 B) 6 C) 7 D) 8 E) 9

79.



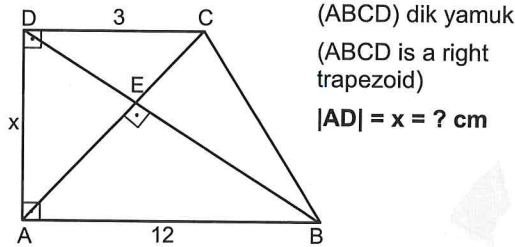
- A) 30 B) 36 C) 42 D) 48 E) 54

82.



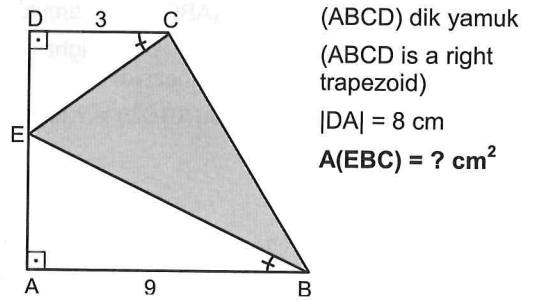
- A) 36 B) 42 C) 48 D) 54 E) 60

80.



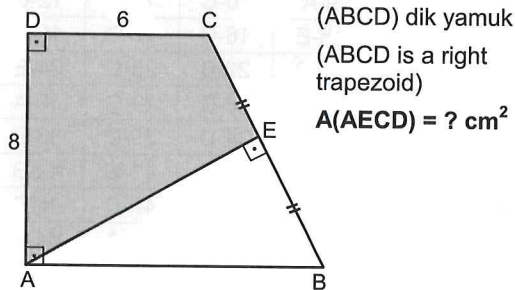
- A) 3 B) 4 C) 5 D) 6 E) 7

83.



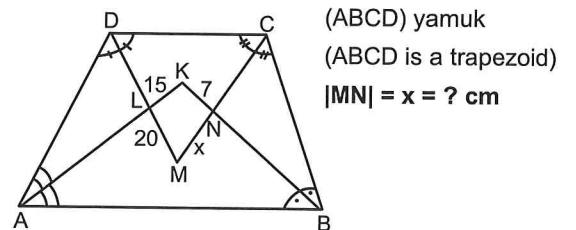
- A) 16 B) 18 C) 22 D) 24 E) 28

81.



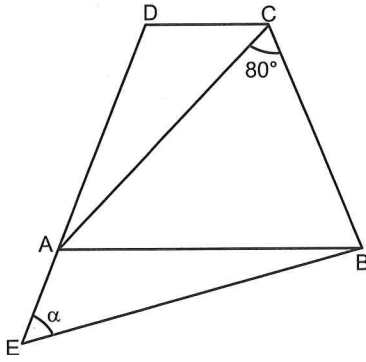
- A) 44 B) 42 C) 38 D) 36 E) 32

84.



- A) 25 B) 24 C) 20 D) 16 E) 12

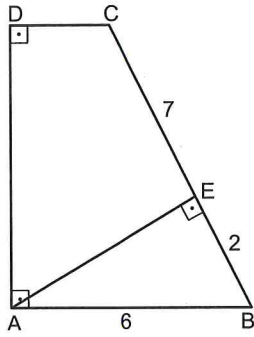
85.



(ABCD) ikizkenar yamuk
(ABCD is an isosceles trapezoid)
 $|AC| = |DE|$
 $\alpha = ?$

- A) 40 B) 50 C) 55 D) 60 E) 65

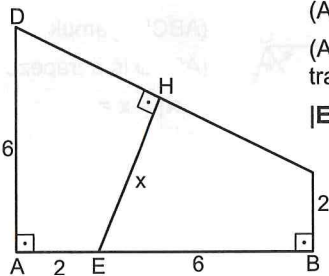
86.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) $54\sqrt{2}$ B) $36\sqrt{2}$ C) $30\sqrt{2}$
D) $27\sqrt{2}$ E) $24\sqrt{2}$

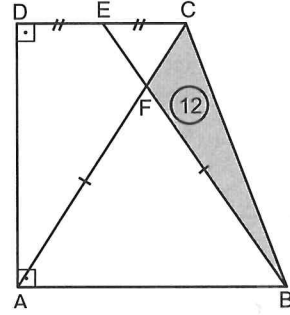
87.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $|EH| = x = ? \text{ cm}$

- A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) 4 D) 5 E) 6

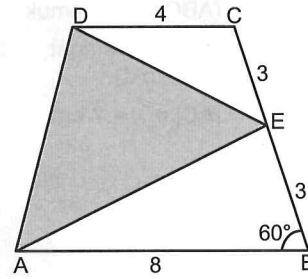
88.



(ABCD) dik yamuk
(ABCD is a right trapezoid)
 $A(FBC) = 12 \text{ cm}^2$
 $A(ABCD) = ? \text{ cm}^2$

- A) 60 B) 70 C) 80 D) 90 E) 100

89.



(ABCD) yamuk
(ABCD is a trapezoid)
 $A(\triangle ADE) = ? \text{ cm}^2$

- A) $9\sqrt{3}$ B) $12\sqrt{3}$ C) $15\sqrt{3}$
D) $16\sqrt{3}$ E) $18\sqrt{3}$

CEVAPLAR / ANSWERS

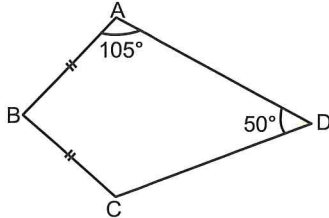
1-C	2-A	3-E	4-D	5-B	6-C
7-E	8-B	9-A	10-C	11-A	12-C
13-A	14-B	15-E	16-C	17-D	18-B
19-B	20-E	21-D	22-B	23-B	24-E
25-B	26-A	27-D	28-D	29-C	30-A
31-E	32-B	33-D	34-D	35-E	36-B
37-C	38-A	39-E	40-B	41-C	42-B
43-E	44-B	45-C	46-A	47-C	48-D
49-D	50-D	51-C	52-C	53-A	54-A
55-A	56-C	57-E	58-E	59-B	60-C
61-D	62-E	63-E	64-B	65-D	66-B
67-B	68-C	69-D	70-D	71-B	72-C
73-A	74-C	75-B	76-B	77-B	78-A
79-B	80-D	81-A	82-C	83-B	84-B
85-B	86-D	87-A	88-C	89-A	

ÜNİTE 2
UNIT 2

DELTOİD
DELTOİD

BÖLÜM 8
CHAPTER 8

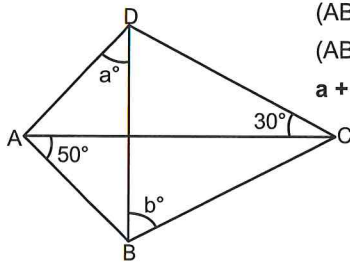
1.



(ABCD) deltoid
(ABCD is a deltoid)
 $m(\hat{A}BC) = ?$

- A) 90 B) 100 C) 110 D) 115 E) 120

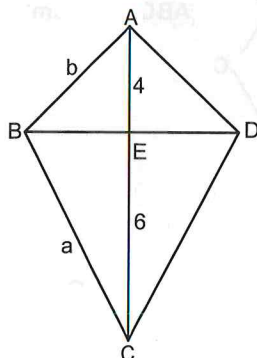
2.



(ABCD) deltoid
(ABCD is a deltoid)
 $a + b = ?$

- A) 100 B) 105 C) 110 D) 115 E) 120

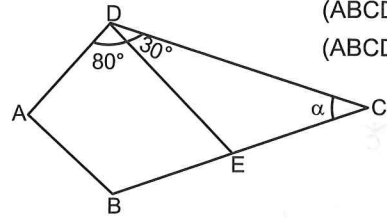
3.



(ABCD) deltoid
(ABCD is a deltoid)
 $a^2 - b^2 = ?$

- A) 16 B) 18 C) 20 D) 22 E) 24

4.

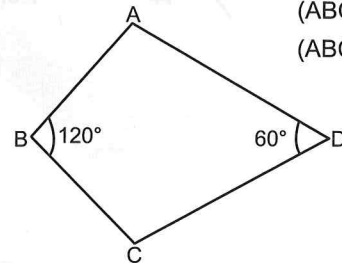


(ABCD) deltoid
(ABCD is a deltoid)

$[AB] \parallel [DE], \alpha = ?$

- A) 30 B) 40 C) 45 D) 50 E) 55

5.

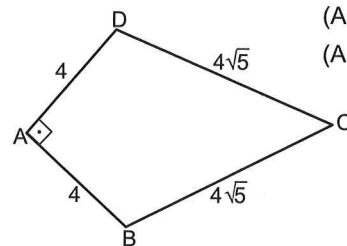


(ABCD) deltoid
(ABCD is a deltoid)

$\frac{|AB|}{|AD|} = ?$

- A) $\frac{\sqrt{3}}{3}$ B) $\frac{\sqrt{3}}{2}$ C) $\frac{2\sqrt{3}}{3}$ D) $\frac{3\sqrt{3}}{2}$ E) $\sqrt{3}$

6.

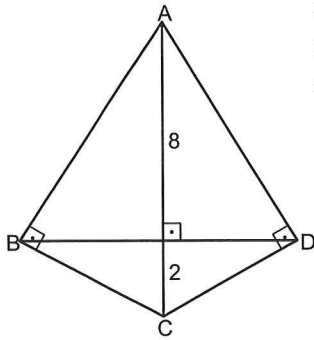


(ABCD) deltoid
(ABCD is a deltoid)

$A(ABCD) = ? \text{ cm}^2$

- A) 16 B) 18 C) 24 D) 28 E) 32

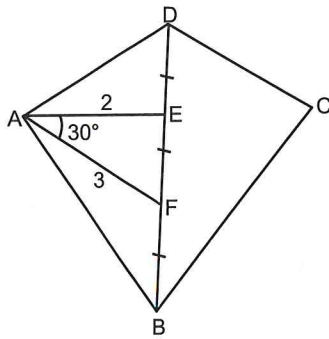
7.



(ABCD) deltoid
(ABCD is a deltoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) 30 B) 40 C) 60 D) 70 E) 80

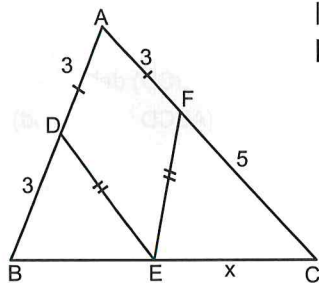
8.



(ABCD) deltoid
(ABCD is a deltoid)
 $\{E, F\} \in [BD]$
 $A(ABCD) = ? \text{ cm}^2$

- A) 4 B) 5 C) 6 D) 9 E) 12

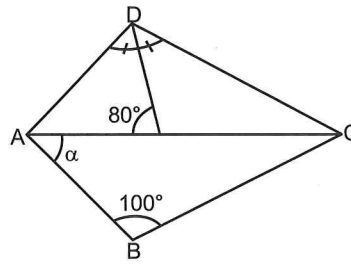
9.



$|BC| = 7 \text{ cm}$
 $|EC| = x = ? \text{ cm}$

- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

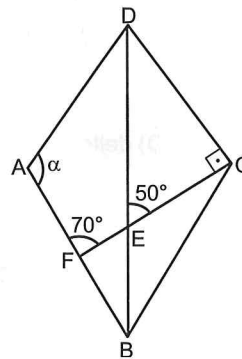
10.



(ABCD) deltoid
(ABCD is a deltoid)
 $m(\hat{CAB}) = \alpha = ?$

- A) 40 B) 50 C) 55 D) 60 E) 65

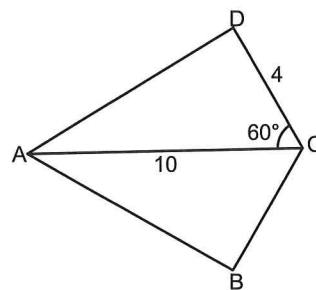
11.



(ABCD) deltoid
(ABCD is a deltoid)
 $[AB] \cap [EC] = \{E\}$
 $m(\hat{DAB}) = \alpha = ?$

- A) 100 B) 110 C) 120 D) 130 E) 140

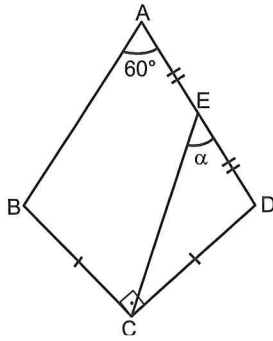
12.



(ABCD) deltoid
(ABCD is a deltoid)
 $A(ABCD) = ? \text{ cm}^2$

- A) $20\sqrt{3}$ B) $18\sqrt{3}$ C) $16\sqrt{3}$
D) $14\sqrt{3}$ E) $10\sqrt{3}$

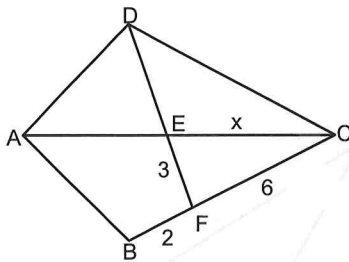
13.



(ABCD) deltoid
(ABCD is a deltoid)
 $\alpha = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

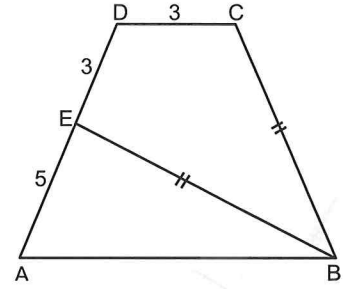
14.



(ABCD) deltoid
(ABCD is a deltoid)
 $[AC] \cap [DB] = \{E\}$
 $|CE| = x = ? \text{ cm}$

- A) 4 B) 5 C) 6 D) 7 E) 8

15.

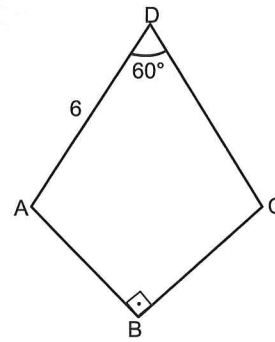


(ABCD) yamuk / (ABCD is a trapezoid)
(DEBC) deltoid / (DEBC is a deltoid)

$|AB| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

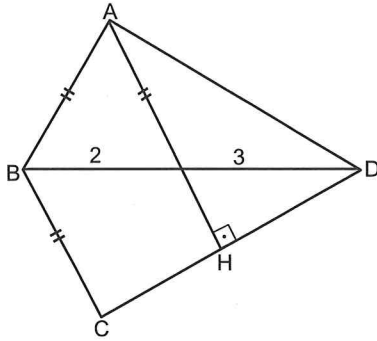
16.



(ABCD) deltoid
(ABCD is a deltoid)
 $|AD| = 6 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) $9 + 9\sqrt{3}$ B) $6 + 6\sqrt{3}$ C) $9 + 6\sqrt{2}$
D) $6 + 6\sqrt{2}$ E) $6 + 9\sqrt{3}$

17.



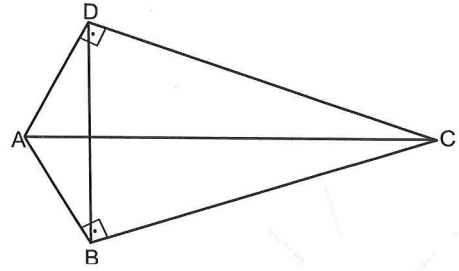
(ABCD) deltoid / (ABCD is a deltoid)

$[AH] \perp [CD]$

$A(ABCD) = ? \text{ cm}^2$

- A) 5 B) 8 C) 10 D) 12 E) 15

19.



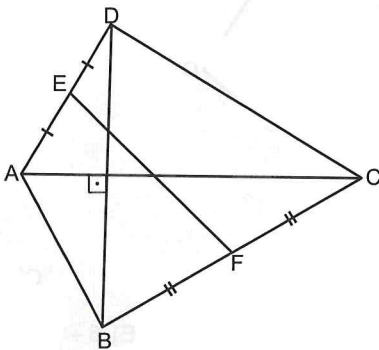
(ABCD) deltoid / (ABCD is a deltoid)

$|AC| = 2|BD|$

$m(\hat{B} \hat{C} D) = ?$

- A) 15 B) 20 C) 30 D) 40 E) 45

18.



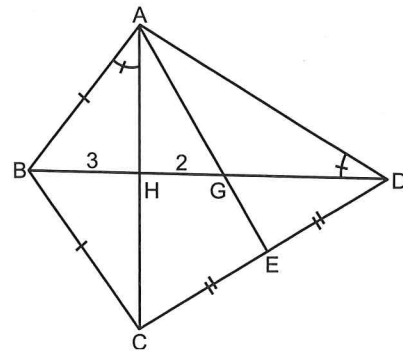
(ABCD) deltoid / (ABCD is a deltoid)

$|AC| = 16 \text{ cm}, |BD| = 12 \text{ cm}$

$|EF| = ? \text{ cm}$

- A) 8 B) 10 C) 15 D) 17 E) 20

20.



(ABCD) deltoid / (ABCD is a deltoid)

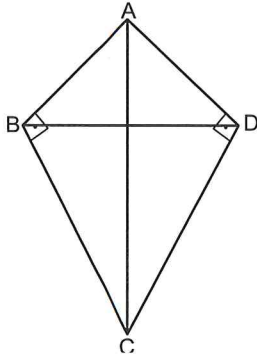
$[AE] \cap [BD] = \{G\}$

$m(\hat{B} \hat{A} C) = m(\hat{A} \hat{D} B)$

$A(ABCD) = ? \text{ cm}^2$

- A) $27\sqrt{2}$ B) 42 C) $24\sqrt{2}$ D) 36 E) $11\sqrt{2}$

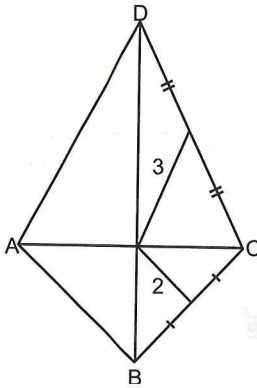
21.



(ABCD) deltoid
 (ABCD is a deltoid)
 $m(\hat{B} \hat{A} D) = 2m(\hat{B} \hat{C} D)$
 $\frac{|BD|}{|AC|} = ?$

- A) $\frac{\sqrt{3}}{3}$ B) $\frac{\sqrt{3}}{2}$ C) $\sqrt{3}$ D) $2\sqrt{3}$ E) 3

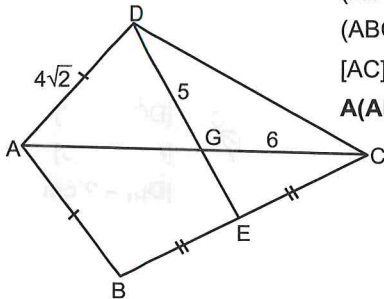
22.



(ABCD) deltoid
 (ABCD is a deltoid)
 $\mathcal{C}(ABCD) = ? \text{ cm}$
 (The primeter(ABCD))= ?

- A) 12 B) 16 C) 20 D) 24 E) 28

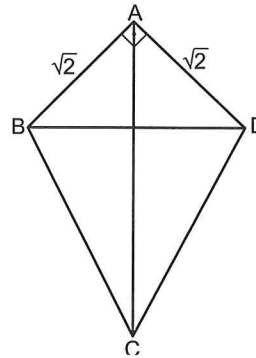
23.



(ABCD) deltoid
 (ABCD is a deltoid)
 $[AC] \cap [DE] = \{G\}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 52 B) 48 C) 45 D) 39 E) 26

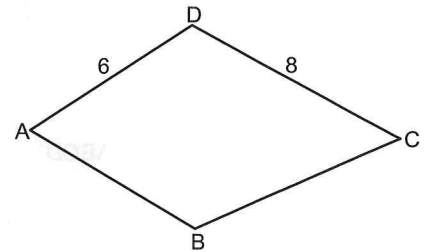
24.



(ABCD) deltoid
 (ABCD is a deltoid)
 $|AC| = 2 \cdot |DB|$
 $A(ABCD) = ? \text{ cm}^2$

- A) 8 B) 7 C) 6 D) 5 E) 4

25.



(ABCD) deltoid / (ABCD is a deltoid)

$m(\hat{D} \hat{A} B) + m(\hat{D} \hat{C} B) = 90^\circ$

$A(ABCD) = ? \text{ cm}^2$

- A) $16\sqrt{2}$ B) $18\sqrt{2}$ C) $20\sqrt{2}$
 D) $22\sqrt{2}$ E) $24\sqrt{2}$

CEVAPLAR / ANSWERS					
1-B	2-A	3-C	4-B	5-A	6-E
7-B	8-D	9-E	10-B	11-C	12-A
13-D	14-C	15-C	16-A	17-C	18-B
19-C	20-A	21-B	22-C	23-A	24-E
25-E					

ÜNİTE 2

UNIT 2

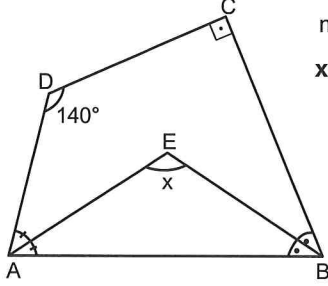
DÖRTGENLER YÖS SORULARI

QUADRILATERALS YÖS QUESTIONS

ALİŞTIRMALAR

EXERCISES

1.

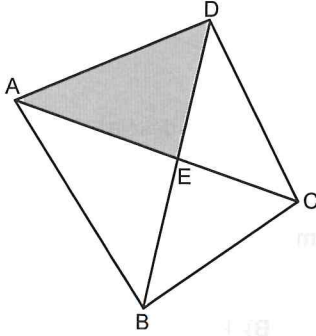


$$m(\hat{AEB}) = x$$

$$x = ?$$

- A) 100 B) 105 C) 110 D) 115 E) 120

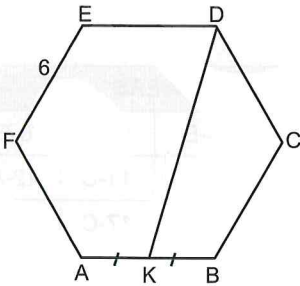
2.



(ABCD) dörtgen
(ABCD is a quadrilateral)
 $A(DEC) = 8 \text{ cm}^2$
 $A(AEB) = 15 \text{ cm}^2$
 $A(EBC) = 12 \text{ cm}^2$
 $A(EDA) = ? \text{ cm}^2$

- A) 16 B) 15 C) 12 D) 11 E) 10

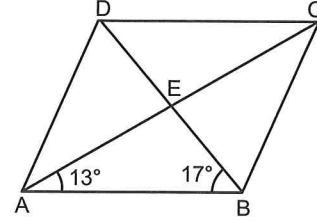
3.



(ABCDEF) düzgün altıgen
(ABCDEF is a regular hexagon)
 $|EF| = 6 \text{ cm}$
 $|KD| = ? \text{ cm}$

- A) $\sqrt{13}$ B) $3\sqrt{3}$ C) $6\sqrt{3}$ D) $3\sqrt{13}$ E) $6\sqrt{13}$

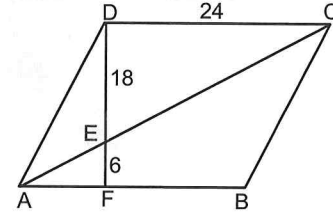
4.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|AC| = 8 \text{ cm}$
 $|BD| = 6 \text{ cm}$
 $A(ABCD) = ? \text{ cm}^2$

- A) 6 B) 8 C) 10 D) 12 E) 18

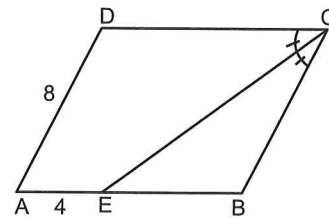
5.



$[AD] \parallel [BC]$
 $[DC] \parallel [AB]$
 $|FB| = ? \text{ cm}$

- A) 24 B) 22 C) 20 D) 16 E) 12

6.



$[DC] \parallel [AB]$
 $[AD] \parallel [BC]$
 $|DC| = ? \text{ cm}$

- A) 10 B) 12 C) 14 D) 16 E) 18

7.

(ABCD) paralelkenar
(ABCD is a parallelogram)
 $|AB| = |DE|$
 $m(\hat{DAE}) = x = ?$

A) 20 B) 30 C) 40 D) 50 E) 60

8.

(ABCD) paralelkenar / (ABCD is a parallelogram)
 $A(ABCD) = ? \text{ cm}^2$

A) 205 B) 215 C) 255 D) 275 E) 315

9.

$[DC] \parallel [AB]$
 $[AD] \parallel [BC]$
 $|BC| = x = ? \text{ cm}$

A) 6 B) 7 C) 8 D) 9 E) 10

10.

$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $|AC| = 8 \text{ cm}$
 $|DB| = 6 \text{ cm}$
 $|CH| = ? \text{ cm}$

A) $\frac{8}{5}$ B) $\frac{12}{5}$ C) $\frac{14}{5}$ D) $\frac{16}{5}$ E) $\frac{24}{5}$

11.

$[AB] \parallel [DC]$
 $[BC] \parallel [AD]$
 $|AB| = x$
 $x = ? \text{ cm}$

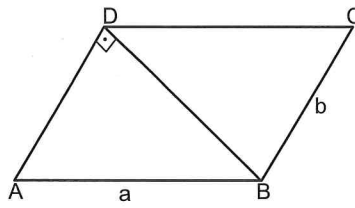
A) 12 B) 11 C) 10 D) 9 E) 8

12.

$[AB] \parallel [DC]$
 $[AD] \parallel [BC]$
 $m(\hat{ADC}) = \alpha = ?$

A) 100 B) 120 C) 125 D) 130 E) 140

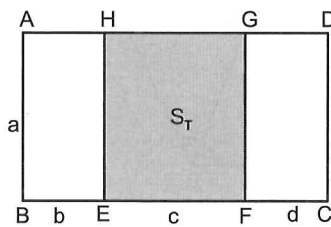
13.



[AB] // [DC]
 [AD] // [BC]
 $A(ABCD) = 40 \text{ cm}^2$
 $\frac{b}{a} = \frac{1}{\sqrt{5}}$
|AB| = ? cm

- A) 4 B) 6 C) 8 D) 10 E) 11

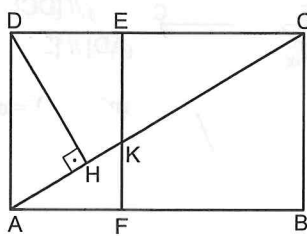
14.



(ABCD) dikdörtgen
 (ABCD is rectangle)
 $a, b, c, d \in \mathbb{Z}$
 $A(ABCD) = 140 \text{ cm}^2$
 $S_T = 90 \text{ cm}^2$
 $a > c > b > d \Rightarrow$
 $b + d = ?$

- A) 3 B) 5 C) 7 D) 12 E) 22

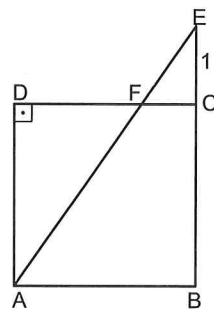
15.



(ABCD) dikdörtgen
 (ABCD is rectangle)
 $[DH] \perp [AC]$
 $|DH| = 3 \text{ cm}$
 $|KC| = 8 \text{ cm}$
 $|FB| = 4 \cdot |AF|$
 $A(BCEF) = ? \text{ cm}^2$

- A) 12 B) 16 C) 24 D) 36 E) 48

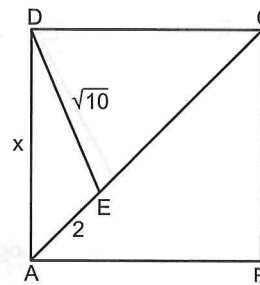
16.



$|AB| = |BC| = |CD| = |AD|$
 $|EC| = 1 \text{ cm}$
 $|AE| = 5 \text{ cm}$
 $|DC| = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

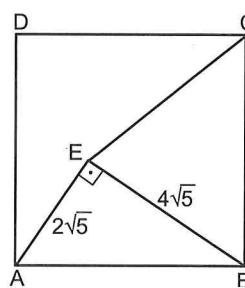
17.



(ABCD) kare
 (ABCD is a square)
 $|AD| = x = ?$

- A) $3\sqrt{2}$ B) $\sqrt{14}$ C) 4 D) $4\sqrt{2}$ E) 5

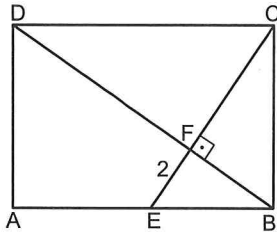
18.



$[CD] \perp [AD]$
 $|CD| = |CB| = |AB| = |AD|$
 $[BE] \perp [AE]$
 $|EC| = x = ?$

- A) $4\sqrt{5}$ B) 10 C) 12 D) 15 E) 18

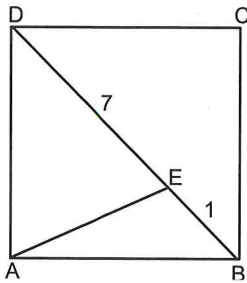
19.



$[CE] \perp [DB]$
 $|DF| = 4 \cdot |FB|$
 $A(ABCD) = ? \text{ cm}^2$

- A) 16 B) 64 C) 80 D) 160 E) 200

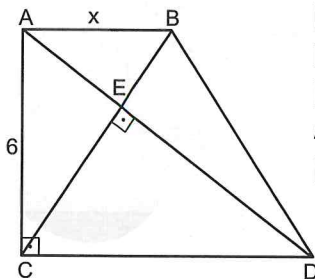
20.



(ABCD) kare
 (ABCD is a square)
 $E \in [BD]$
 $|AE| = ? \text{ cm}$

- A) 4 B) $3\sqrt{2}$ C) $2\sqrt{5}$ D) 5 E) $2\sqrt{7}$

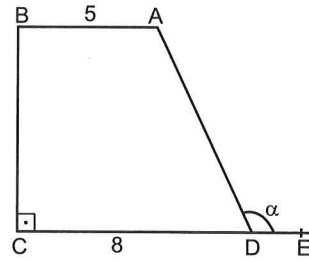
21.



$[AB] \parallel [CD]$
 $[AD] \perp [BC]$
 $|AB| < |AC|$
 $A(ABDC) = 39 \text{ cm}^2$
 $|AB| = x = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 4,5 E) 5

22.

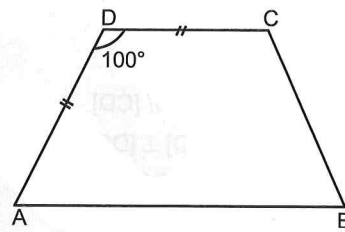


(ABCD) yamuk
 (ABCD is a trapezium)
 $A(ABCD) = \frac{39\sqrt{3}}{2} \text{ cm}^2$

$m(\hat{ADE}) = \alpha = ?$

- A) 120 B) 135 C) 150 D) 155 E) 160

23.



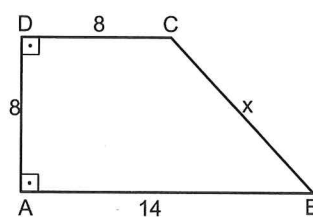
$[AB] \parallel [CD]$
 $|AD| = |DC| = \frac{|AB|}{2}$

$m(\hat{ADC}) = 100^\circ$

$m(\hat{DCB}) = ?$

- A) 130 B) 100 C) 80 D) 50 E) 30

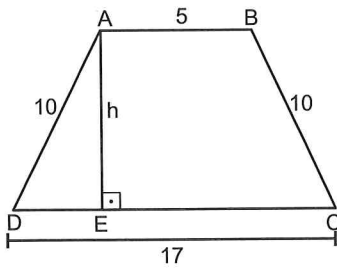
24.



$|BC| = x \Rightarrow$
 $x = ? \text{ cm}$

- A) 10 B) 15 C) 17 D) 19 E) 22

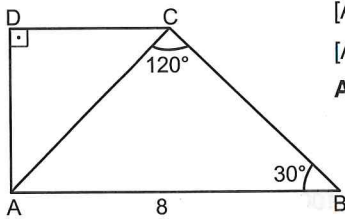
25.



[AB] // [DC]
h = ? cm

- A) 9 B) 8 C) 7 D) 6 E) 5

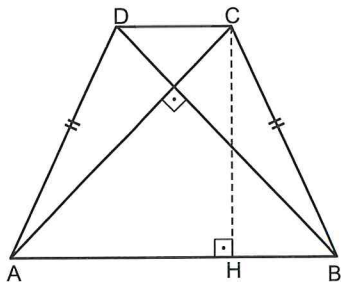
26.



[AB] // [CD]
[AD] ⊥ [DC]
A(ABCD) = ? cm²

- A) 9 B) 12 C) $4\sqrt{3}$ D) $8\sqrt{3}$ E) $9\sqrt{3}$

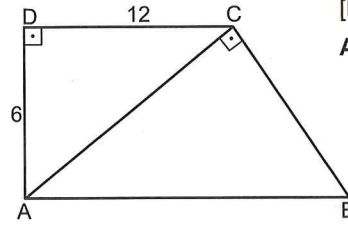
27.



[AC] ⊥ [BD]
[CH] ⊥ [AB]
[AB] // [DC]
|AD| = |BC|
|DC| = 2 cm
|AB| = 6 cm
|CH| = h = ? cm

- A) $\frac{7}{2}$ B) $\frac{9}{2}$ C) 4 D) 5 E) 6

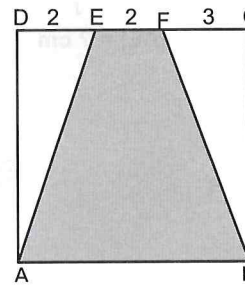
28.



[DC] // [AB]
A(ABCD) = ? cm²

- A) $\frac{81}{4}$ B) $\frac{81}{2}$ C) 81 D) 162 E) 243

29.



(ABCD) kare
(ABCD is a square)
 $\frac{A(ABFE)}{A(ABCD)} = ?$

- A) $\frac{3}{7}$ B) $\frac{5}{7}$ C) $\frac{8}{13}$ D) $\frac{9}{14}$ E) $\frac{5}{16}$

CEVAPLAR / ANSWERS					
1-D	2-E	3-D	4-D	5-D	6-B
7-B	8-C	9-C	10-E	11-B	12-B
13-D	14-B	15-C	16-B	17-A	18-B
19-D	20-D	21-C	22-A	23-A	24-A
25-B	26-D	27-C	28-C	29-D	

ÜNİTE 3

UNIT 3

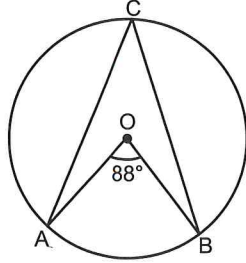
ÇEMBERLER VE DAİRE

CIRCLES AND AREA IN A CIRCLE

- ★ ÇEMBERDE AÇI 193-205
ANGLE IN A CIRCLE
- ★ ÇEMBERDE UZUNLUK..... 206-220
LENGTH IN A CIRCLE
- ★ DAİRE ALANI..... 221-230
THE AREA OF CIRCULAR REGION
- ★ ÇEMBER VE DAİRE YÖS SORULARI..... 231-236
CIRCLE AND CIRCULAR YÖS QUESTIONS

ÜNİTE 3 UNIT 3	ÇEMBERDE AÇI ANGLE IN A CIRCLE	BÖLÜM 1 CHAPTER 1
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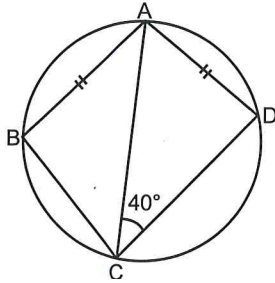
1.



$m(\hat{A}CB) = ?$

- A) 40 B) 42 C) 44 D) 46 E) 48

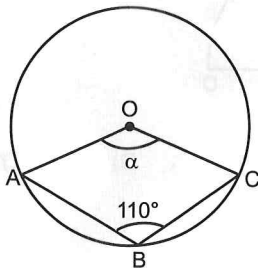
2.



$m(\hat{B}CA) = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

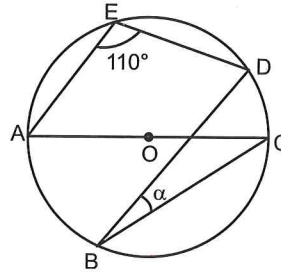
3.



$\alpha = ?$

- A) 140 B) 130 C) 120 D) 110 E) 100

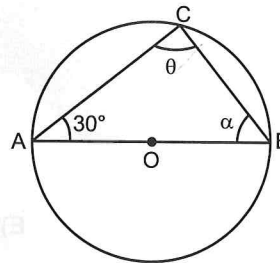
4.



$\alpha = ?$

- A) 40 B) 35 C) 30 D) 25 E) 20

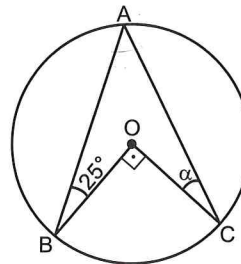
5.



$\theta - \alpha = ?$

- A) 60 B) 50 C) 40 D) 30 E) 20

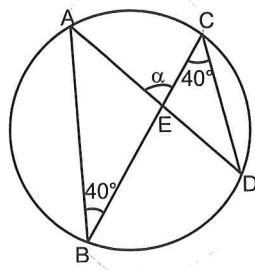
6.



$\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

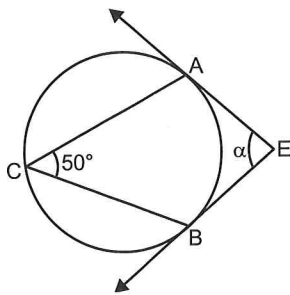
7.



$\alpha = ?$

- A) 70 B) 80 C) 90 D) 100 E) 110

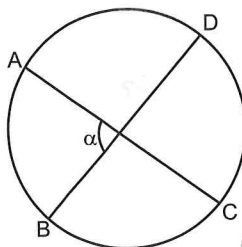
8.



$\alpha = ?$

- A) 100 B) 90 C) 80 D) 70 E) 60

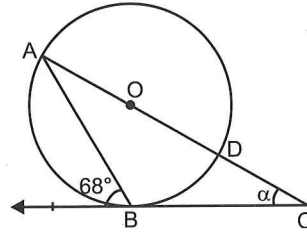
9.



$m(\widehat{AD}) = 85^\circ$
 $m(\widehat{BC}) = 95^\circ$
 $\alpha = ?$

- A) 105 B) 100 C) 95 D) 90 E) 85

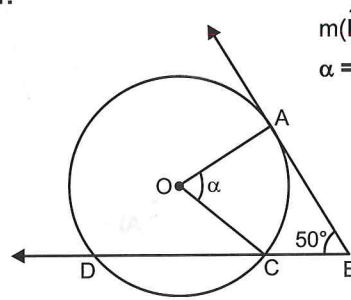
10.



$\alpha = ?$

- A) 40 B) 42 C) 44 D) 46 E) 48

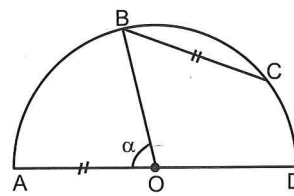
11.



$m(\widehat{DC}) = 100^\circ$
 $\alpha = ?$

- A) 75 B) 80 C) 90 D) 95 E) 100

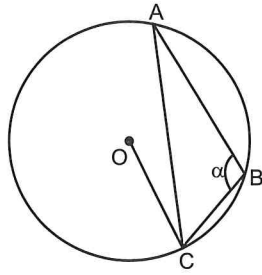
12.



$m(\widehat{CD}) = 40^\circ$
 $\alpha = ?$

- A) 80 B) 75 C) 70 D) 65 E) 60

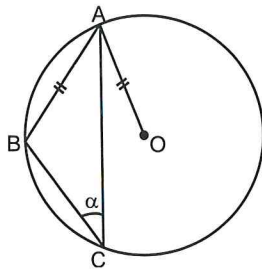
13.



$m(\hat{A}CO) = 10^\circ$
 $\alpha = ?$

- A) 130 B) 120 C) 115 D) 110 E) 100

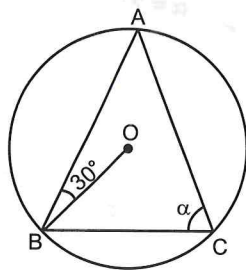
14.



$\alpha = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

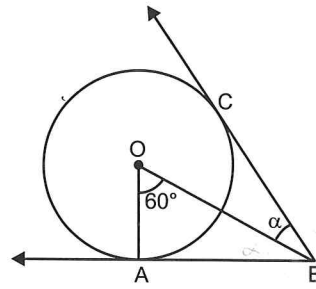
15.



$\alpha = ?$

- A) 70 B) 65 C) 60 D) 55 E) 50

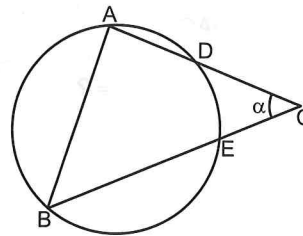
16.



$\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

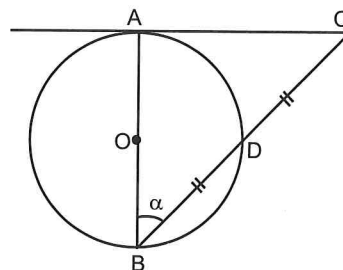
17.



$m(\widehat{DE}) = 35^\circ$
 $m(\widehat{AB}) = 105^\circ$
 $\alpha = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

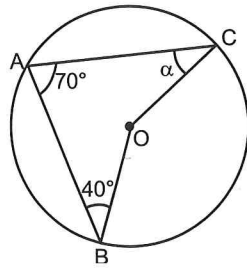
18.



$\alpha = ?$

- A) 25 B) 30 C) 35 D) 40 E) 45

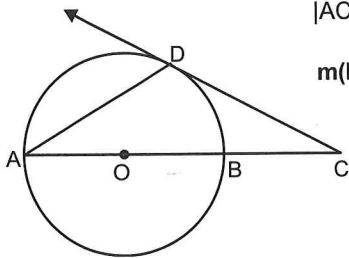
19.



$\alpha = ?$

- A) 40 B) 35 C) 30 D) 25 E) 20

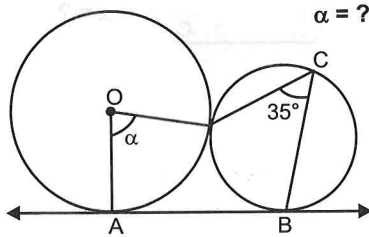
20.



$|AC| = 3 \cdot |BC|$
 $m(\hat{D A C}) = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

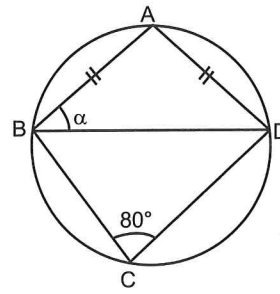
21.



$\alpha = ?$

- A) 80 B) 90 C) 100 D) 110 E) 120

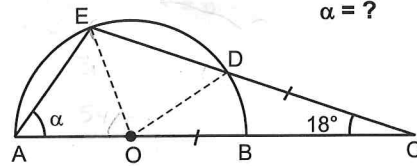
22.



$\alpha = ?$

- A) 35 B) 40 C) 50 D) 55 E) 60

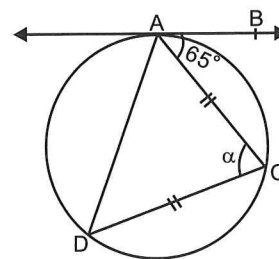
23.



$\alpha = ?$

- A) 48 B) 56 C) 63 D) 70 E) 72

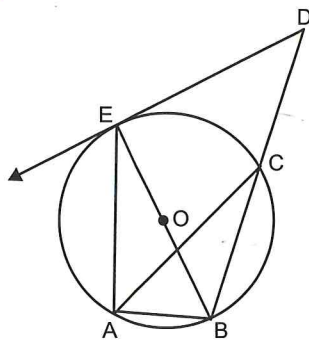
24.



$\alpha = ?$

- A) 120 B) 100 C) 90 D) 80 E) 50

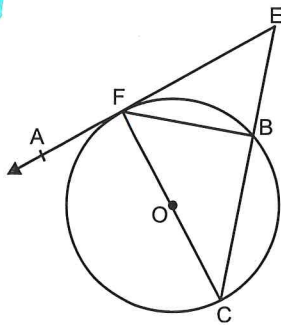
25.



$|DC| = |CB|$
 $m(\hat{CAB}) = ?$

- A) 20 B) 22,5 C) 50 D) 45 E) 60

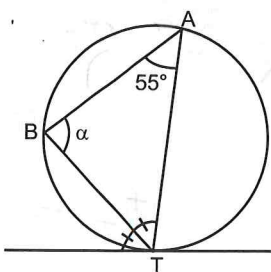
26.



$m(\hat{FBC}) = ?$

- A) 60 B) 75 C) 90 D) 105 E) 120

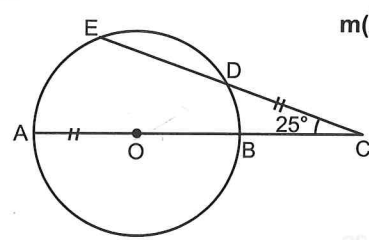
27.



$\alpha = ?$

- A) 50 B) 55 C) 65 D) 70 E) 80

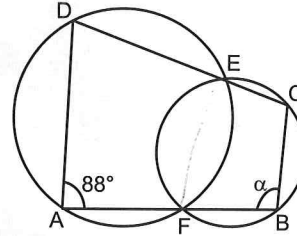
28.



$m(\widehat{AE}) = ?$

- A) 60 B) 75 C) 80 D) 90 E) 100

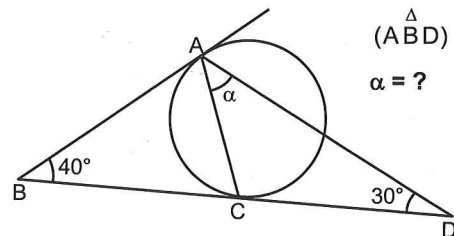
29.



$\alpha = ?$

- A) 102 B) 100 C) 98 D) 96 E) 92

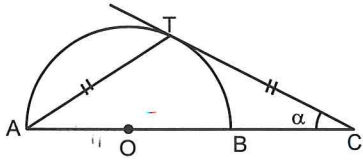
30.



$\Delta (ABD) \Rightarrow$
 $\alpha = ?$

- A) 40 B) 35 C) 30 D) 25 E) 20

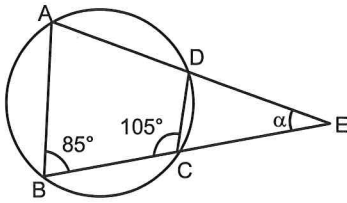
31.



$\triangle (TAC) \Rightarrow$
 $\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

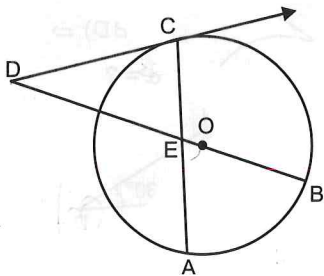
32.



$\alpha = ?$

- A) 20 B) 25 C) 30 D) 35 E) 40

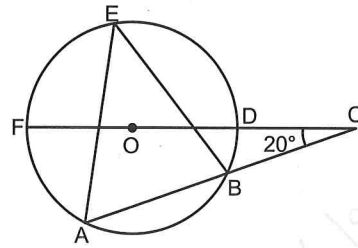
33.



$m(\widehat{DCA}) = 80^\circ$
 $m(\widehat{AB}) = 70^\circ$
 $m(\widehat{DEC}) = ?$

- A) 80 B) 70 C) 60 D) 50 E) 40

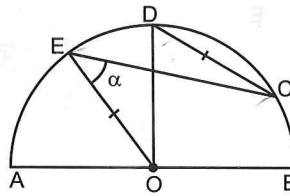
34.



$|FO| = |BC|$
 $m(\widehat{AEB}) = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

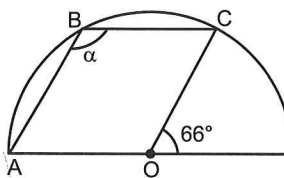
35.



$m(\widehat{EOD}) = 20^\circ$
 $\alpha = ?$

- A) 40 B) 45 C) 50 D) 55 E) 60

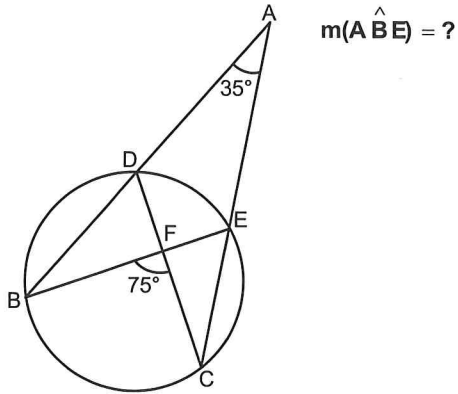
36.



$\alpha = ?$

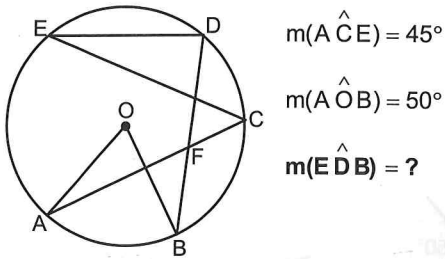
- A) 120 B) 121 C) 122 D) 123 E) 125

37.



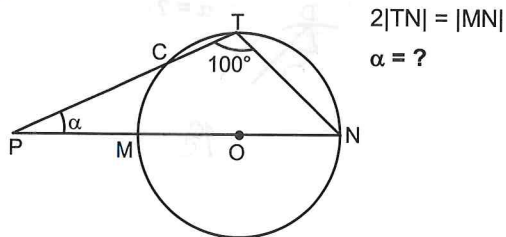
- A) 15 B) 20 C) 25 D) 30 E) 35

38.



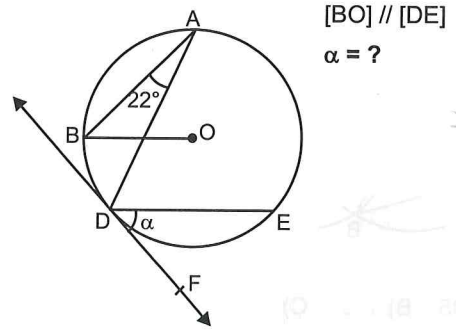
- A) 60 B) 65 C) 70 D) 75 E) 80

39.



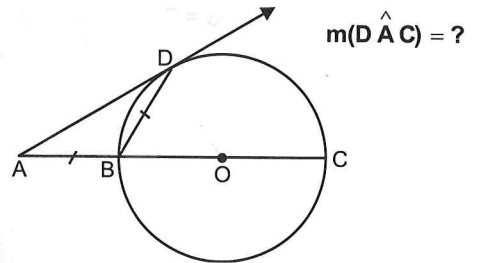
- A) 5 B) 10 C) 15 D) 20 E) 25

40.



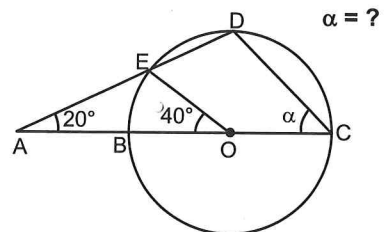
- A) 38 B) 40 C) 42 D) 44 E) 46

41.



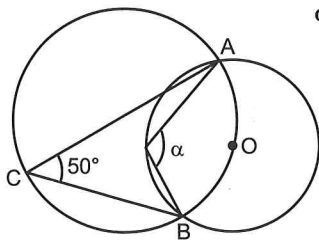
- A) 30 B) 35 C) 40 D) 45 E) 50

42.



- A) 40 B) 45 C) 50 D) 55 E) 60

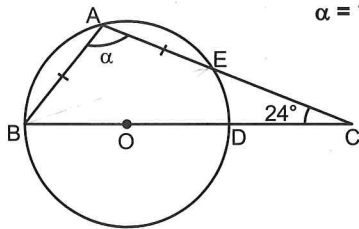
43.



$\alpha = ?$

- A) 105 B) 110 C) 115 D) 120 E) 125

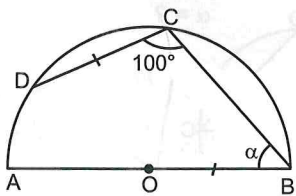
44.



$\alpha = ?$

- A) 100 B) 102 C) 104 D) 106 E) 108

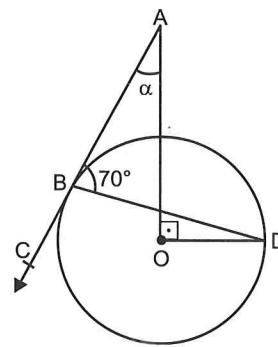
45.



$\alpha = ?$

- A) 30 B) 40 C) 50 D) 60 E) 70

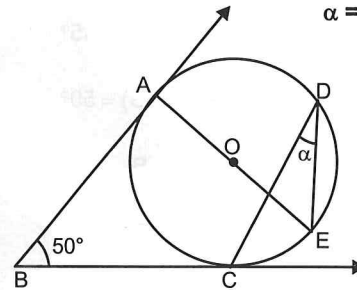
46.



$\alpha = ?$

- A) 40 B) 35 C) 30 D) 25 E) 20

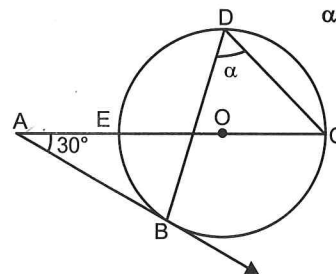
47.



$\alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

48.

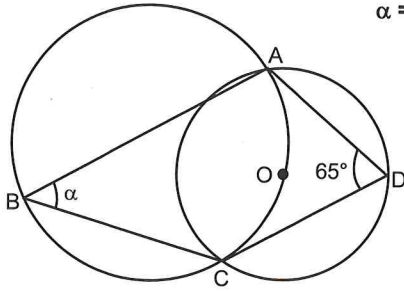


$\alpha = ?$

- A) 55 B) 60 C) 65 D) 70 E) 75

49.

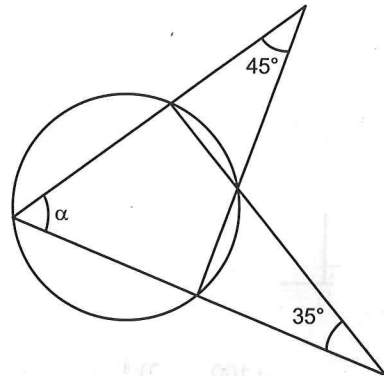
$\alpha = ?$



- A) 40 B) 45 C) 50 D) 55 E) 60

51.

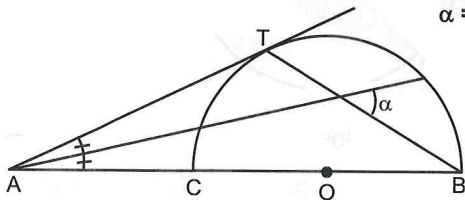
$\alpha = ?$



- A) 75 B) 70 C) 60 D) 55 E) 50

50.

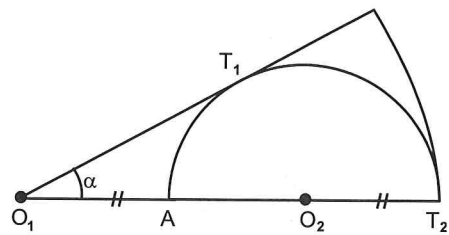
$\alpha = ?$



- A) 15 B) 30 C) 40 D) 45 E) 60

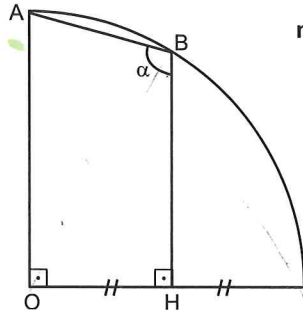
52.

$\alpha = ?$



- A) 15 B) 20 C) 30 D) 45 E) 60

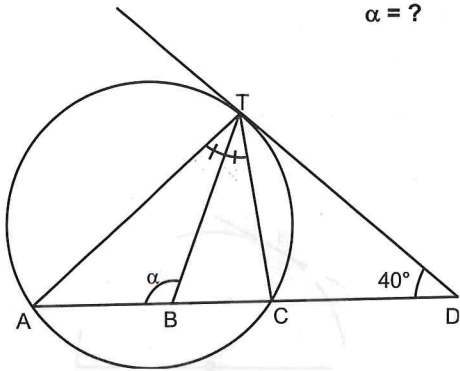
53.



$m(\hat{A}BH) = \alpha = ?$

- A) 95 B) 96 C) 100 D) 105 E) 108

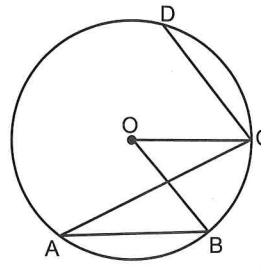
54.



$\alpha = ?$

- A) 120 B) 115 C) 110 D) 105 E) 100

55.



$[DC] \parallel [OB]$

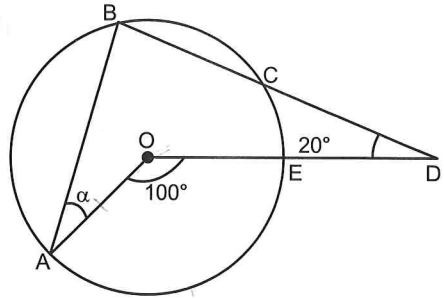
$[OC] \parallel [AB]$

$m(\hat{O}CA) = 15^\circ$

$m(\hat{A}CD) = ?$

- A) 30 B) 35 C) 40 D) 45 E) 50

56.



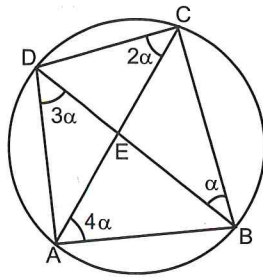
$m(\hat{B}DO) = 20^\circ$

$|OA| = |CD|$

$m(\hat{B}AO) = \alpha = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

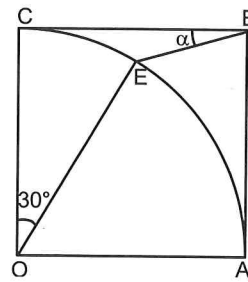
57.



$m(\widehat{AEB}) = ?$

- A) 18 B) 36 C) 54 D) 60 E) 72

59.

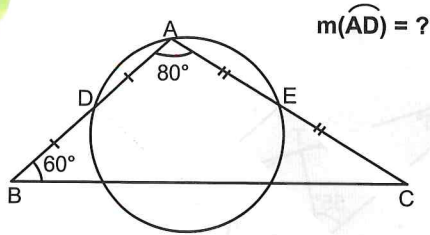


(OABC) kare
(OABC is a square)

$m(\widehat{EBC}) = \alpha = ?$

- A) 10 B) 15 C) 20 D) 25 E) 30

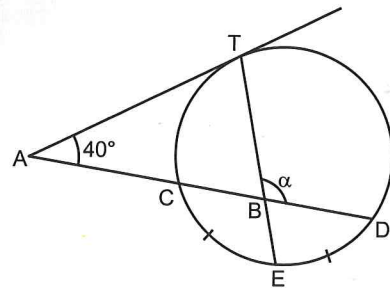
58.



$m(\widehat{AD}) = ?$

- A) 40 B) 50 C) 60 D) 70 E) 80

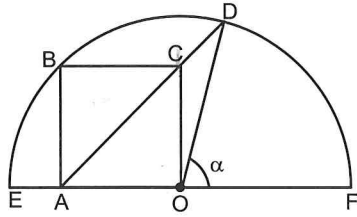
60.



$m(\widehat{TBD}) = \alpha = ?$

- A) 100 B) 105 C) 110 D) 120 E) 130

61.



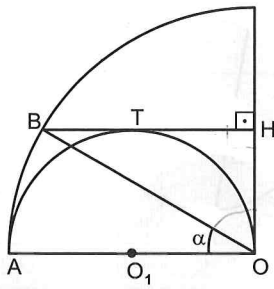
(AOCB) kare / (AOCB is a square)

$C \in [AD]$

$m(\widehat{DOF}) = \alpha = ?$

- A) 60 B) 65 C) 70 D) 75 E) 80

62.

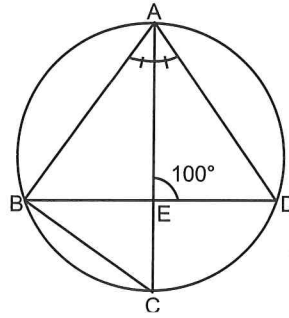


$[BH] \parallel [AO]$

$m(\widehat{BOA}) = \alpha = ?$

- A) 15 B) 20 C) 25 D) 30 E) 35

63.

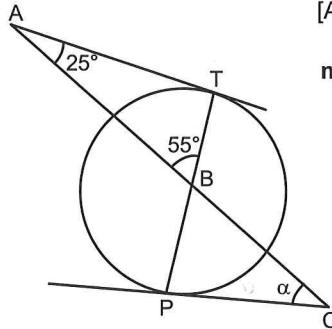


$[BD] \cap [AC] = \{E\}$

$m(\widehat{ABC}) = ?$

- A) 90 B) 95 C) 100 D) 105 E) 110

64.

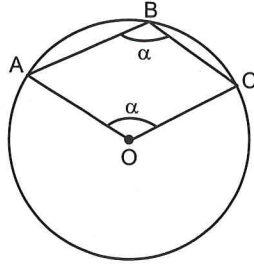


$[AC] \cap [TP] = \{B\}$

$m(\widehat{ACP}) = \alpha = ?$

- A) 45 B) 50 C) 55 D) 60 E) 65

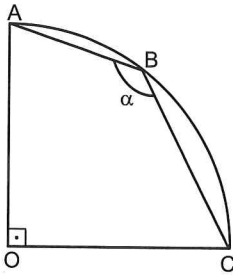
65.



$\alpha = ?$

- A) 120 B) 130 C) 135 D) 140 E) 150

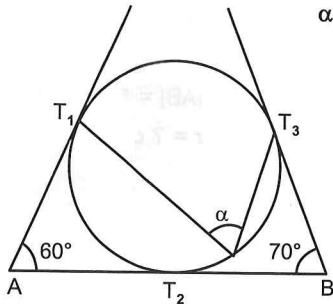
66.



$\alpha = ?$

- A) 120 B) 130 C) 135 D) 140 E) 150

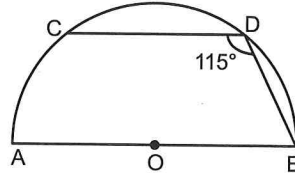
67.



$\alpha = ?$

- A) 50 B) 55 C) 60 D) 65 E) 70

68.

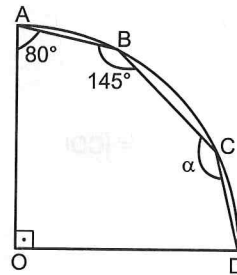


$[CD] \parallel [AB]$

$m(\widehat{CD}) = ?$

- A) 70 B) 80 C) 90 D) 100 E) 110

69.



$m(\widehat{BCD}) = \alpha = ?$

- A) 130 B) 135 C) 140 D) 145 E) 150

CEVAPLAR / ANSWERS

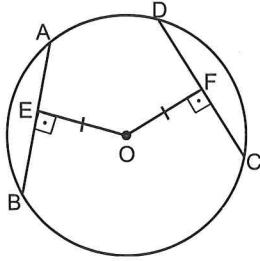
1-C	2-E	3-A	4-E	5-D	6-B
7-B	8-C	9-D	10-D	11-B	12-A
13-E	14-C	15-C	16-D	17-D	18-E
19-C	20-D	21-D	22-B	23-C	24-E
25-D	26-C	27-D	28-B	29-E	30-A
31-D	32-A	33-C	34-A	35-C	36-D
37-B	38-C	39-D	40-E	41-A	42-C
43-C	44-C	45-B	46-A	47-C	48-B
49-C	50-D	51-E	52-C	53-D	54-C
55-D	56-C	57-E	58-E	59-B	60-C
61-D	62-D	63-C	64-A	65-A	66-C
67-D	68-B	69-D			

ÜNİTE 3
UNIT 3

ÇEMBERDE UZUNLUK
LENGTH IN A CIRCLE

BÖLÜM 2
CHAPTER 2

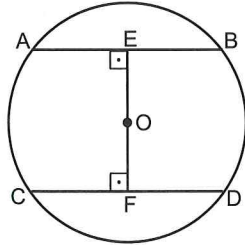
1.



$|AB| = x + 4$
 $|CD| = 2x - 8$
 $|DF| = ? \text{ cm}$

- A) 8 B) 7 C) 6 D) 5 E) 4

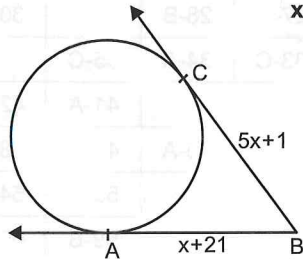
2.



$|AB| = |CD|$
 $|OE| = 3x - 14$
 $|OF| = x + 6$
 $|EF| = ? \text{ cm}$

- A) 10 B) 14 C) 16 D) 18 E) 32

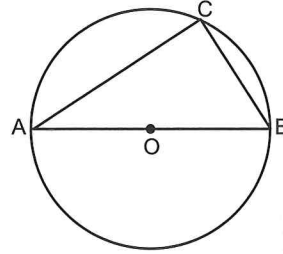
3.



$x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

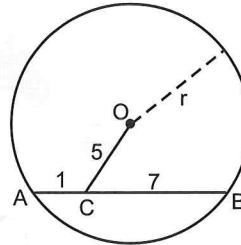
4.



$|CB| = 5 \text{ cm}$
 $|AB| = 13 \text{ cm}$
 $|AC| = ? \text{ cm}$

- A) 6 B) 8 C) 10 D) 12 E) 14

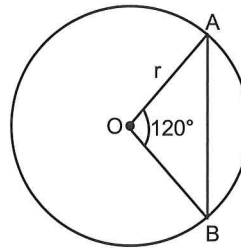
5.



$r = ? \text{ cm}$

- A) 4 B) 5 C) $4\sqrt{2}$ D) 6 E) $4\sqrt{3}$

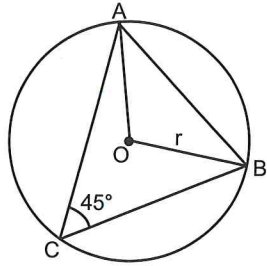
6.



$|AB| = 12 \text{ cm}$
 $r = ? \text{ cm}$

- A) $2\sqrt{3}$ B) 4 C) $4\sqrt{3}$ D) 6 E) 7

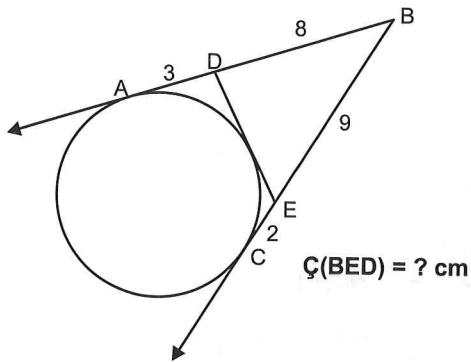
7.



$|AB| = 8\sqrt{2}$ cm
 $r = ?$ cm

- A) 4 B) 6 C) 8 D) 10 E) 12

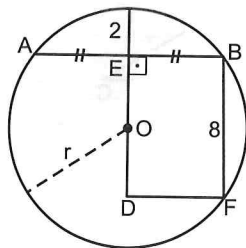
8.



$\widehat{BED} = ?$ cm

- A) 7 B) 19 C) 22 D) 25 E) 34

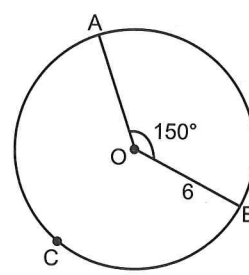
9.



(DFBE) dikdörtgen
(DFBE is a rectangle)
 $r = ?$ cm

- A) 3 B) 4 C) 5 D) 6 E) 7

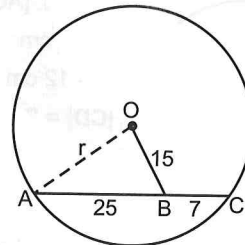
10.



$|\widehat{ACB}| = ? \pi$ cm

- A) 4 B) 5 C) 6 D) 7 E) 8

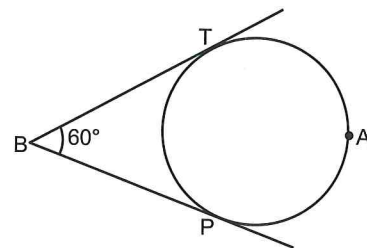
11.



$r = ?$ cm

- A) 16 B) 20 C) 24 D) 28 E) 32

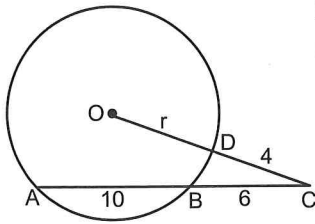
12.



$|BT| = 3\sqrt{3}$ cm
 $|\widehat{TAP}| = ?$ cm

- A) 4π B) 5π C) 6π D) 7π E) 8π

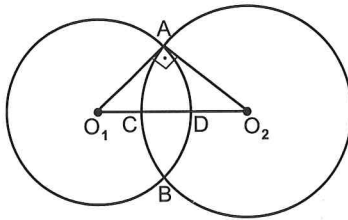
13.



$|OD| = r$
 $r = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

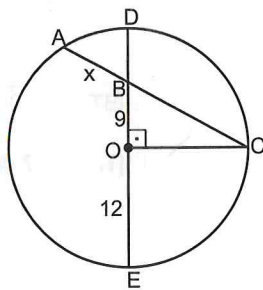
14.



$[AO_1] \perp [AO_2]$
 $r_1 = 9 \text{ cm}$
 $r_2 = 12 \text{ cm}$
 $|CD| = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

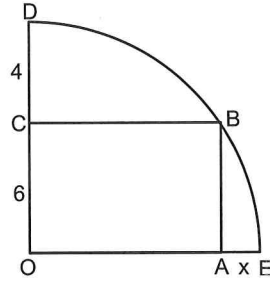
15.



$|AB| = x = ? \text{ cm}$

- A) 2,1 B) 2,4 C) 2,8 D) 3,6 E) 4,2

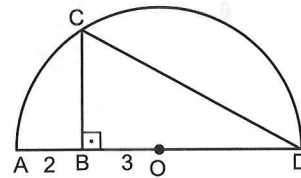
16.



(OABC) dikdörtgen
(OABC is a rectangle)
 $|AE| = x = ? \text{ cm}$

- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

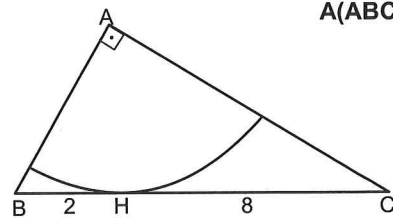
17.



$|CD| = ? \text{ cm}$

- A) $6\sqrt{2}$ B) $4\sqrt{5}$ C) $2\sqrt{21}$ D) 9 E) $3\sqrt{10}$

18.

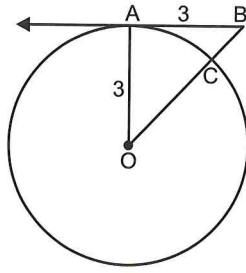


$A(ABC) = ?$

A çemberin merkezi / (The point A center of circle)

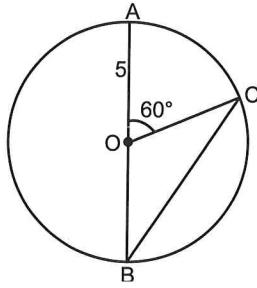
- A) 20 B) 25 C) 30 D) 35 E) 40

19.

 $|BC| = ? \text{ cm}$

- A) $3\sqrt{2} - 2$ B) $3\sqrt{2} - 3$ C) 1 D) 2 E) 3

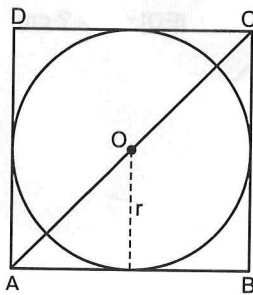
20.



$O \in [AB]$
 $|CB| = ? \text{ cm}$

- A) 7 B) 8 C) $5\sqrt{3}$ D) 9 E) 10

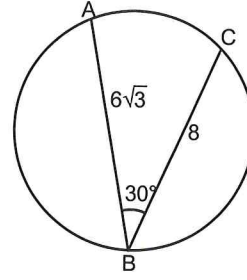
21.



(ABCD) kare
 (ABCD is a square)
 $|AC| = 4\sqrt{2} \text{ cm}$
 $r = ? \text{ cm}$

- A) 1 B) 2 C) 3 D) 4 E) 5

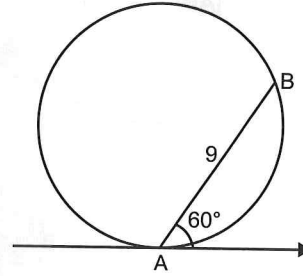
22.



Çemberin yarıçapı kaçtır?
 (What is the radius of the circle)

- A) $\sqrt{13}$ B) 5 C) $2\sqrt{7}$ D) $2\sqrt{5}$ E) $2\sqrt{6}$

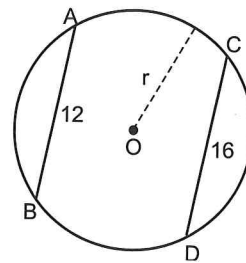
23.



Çemberin yarıçapı kaçtır?
 (What is the radius of the circle)

- A) 9 B) $6\sqrt{3}$ C) 6 D) $4\sqrt{2}$ E) $3\sqrt{3}$

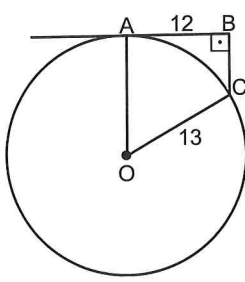
24.



$m(\widehat{AB}) + m(\widehat{CD}) = 180^\circ$
 $r = ? \text{ cm}$

- A) 8 B) 10 C) 12 D) 16 E) 20

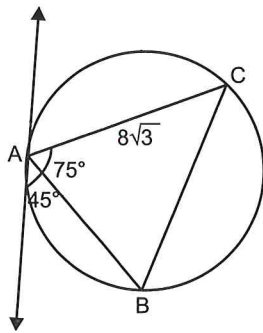
25.



$A(OCBA) = ? \text{ cm}^2$

- A) 126 B) 134 C) 160 D) 186 E) 180

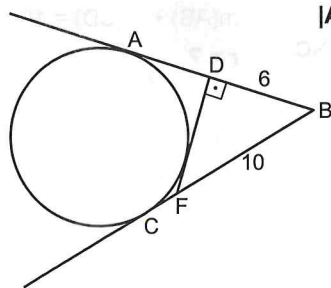
26.



$|AB| = ? \text{ cm}$

- A) 8 B) $4\sqrt{5}$ C) $8\sqrt{2}$ D) $8\sqrt{3}$ E) 16

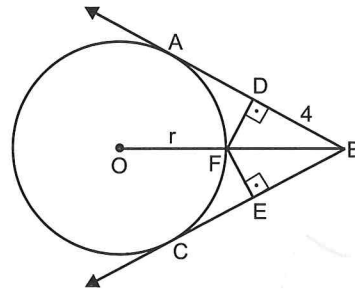
27.



$|AB| = ? \text{ cm}$

- A) 11 B) 12 C) 13 D) 14 E) 15

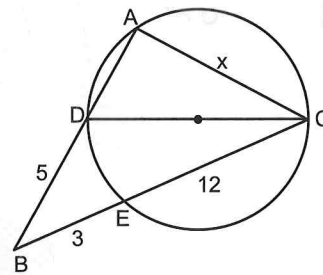
28.



$|DF| = x + 1$
 $|FE| = 2x - 1$
 $r = ?$

- A) 6 B) 7,5 C) 9 D) 10,5 E) 12

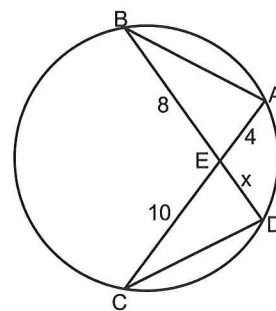
29.



$|AC| = x = ? \text{ cm}$

- A) 12 B) 10 C) 8 D) 6 E) 4

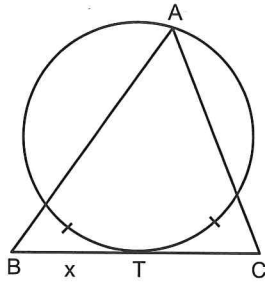
30.



$|ED| = x = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

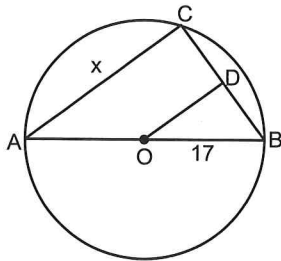
31.



$|AB| = 18 \text{ cm}$
 $|AC| = 12 \text{ cm}$
 $|BC| = 10 \text{ cm}$
 $|BT| = x = ? \text{ cm}$

- A) 4 B) 6 C) 8 D) 10 E) 12

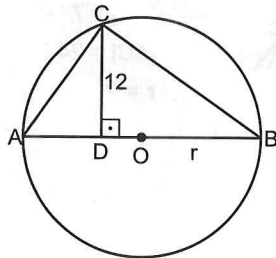
32.



$|CD| = |DB| = 8 \text{ cm}$
 $|AC| = x = ? \text{ cm}$

- A) 22 B) 24 C) 26 D) 28 E) 30

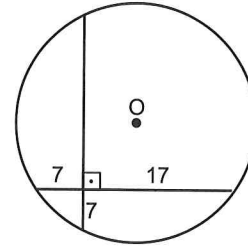
33.



$|AC| = 15 \text{ cm}$
 $r = ? \text{ cm}$

- A) 8 B) 10,5 C) 12,5 D) 15 E) 20

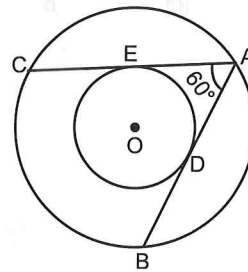
34.



$r = ? \text{ cm}$
 (radius = ?)

- A) 10 B) 13 C) 15 D) 17 E) 20

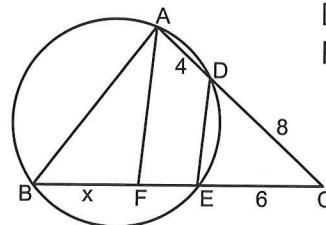
35.



$|AB| = 4\sqrt{3}$
 $|OD| = ? \text{ cm}$

- A) 1 B) $\sqrt{3}$ C) 2 D) $\sqrt{6}$ E) $2\sqrt{2}$

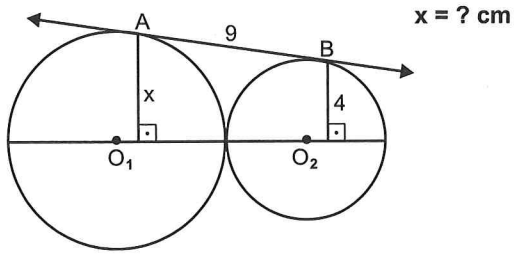
36.



$[DE] \parallel [AF]$
 $|BF| = x = ? \text{ cm}$

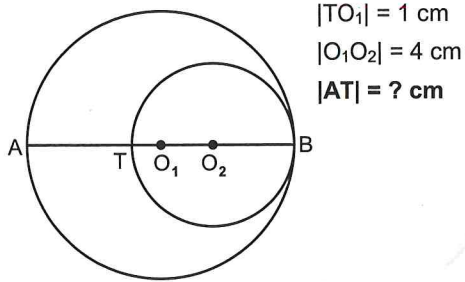
- A) 7 B) 6 C) 5 D) 4 E) 3

37.



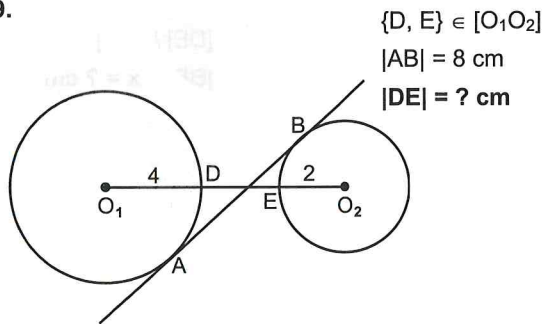
- A) 5 B) 5,5 C) 6 D) 6,5 E) 7

38.



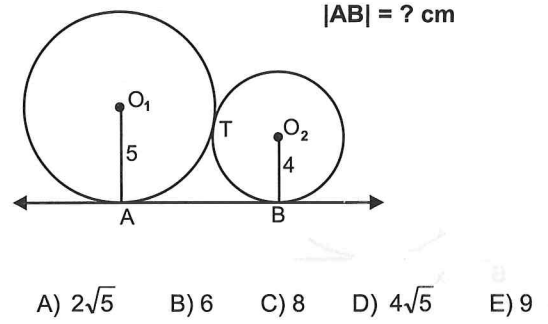
- A) 8 B) 7 C) 6 D) 5 E) 4

39.



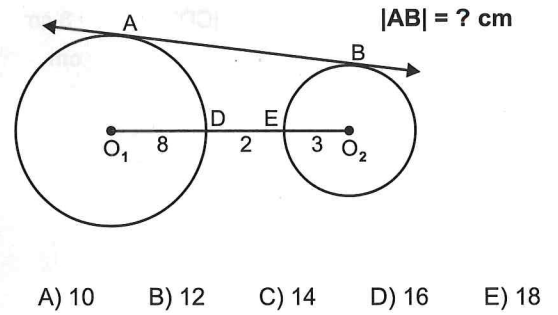
- A) 2 B) 4 C) 6 D) 8 E) 10

40.



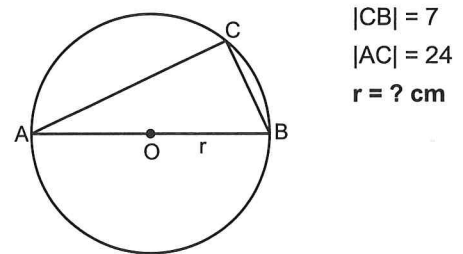
- A) $2\sqrt{5}$ B) 6 C) 8 D) $4\sqrt{5}$ E) 9

41.



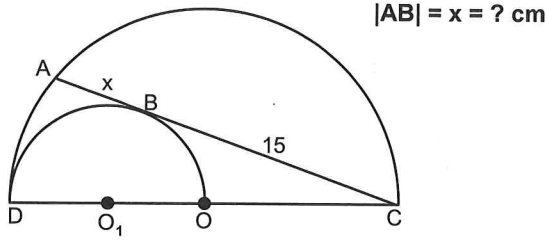
- A) 10 B) 12 C) 14 D) 16 E) 18

42.



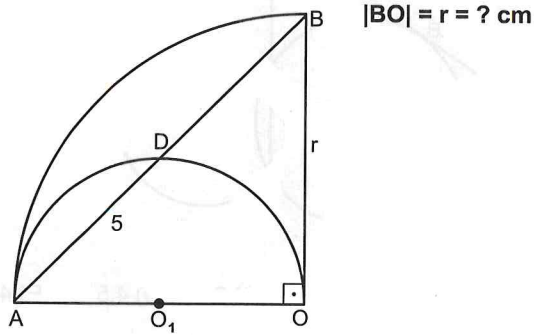
- A) 12 B) 12,5 C) 13 D) 14 E) 15

43.



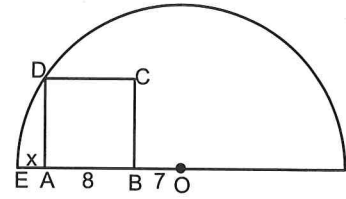
- A) 5 B) 6 C) 7 D) 8 E) 9

44.



- A) 7 B) 8 C) 9 D) 10 E) $5\sqrt{2}$

45.

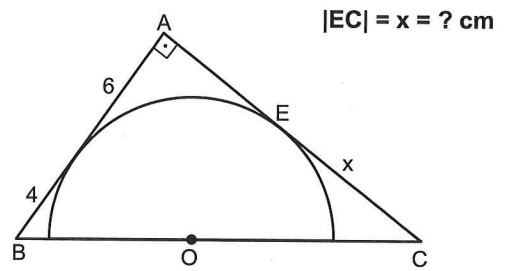


(ABCD) kare / (ABCD is a square)

$|EA| = x = ? \text{ cm}$

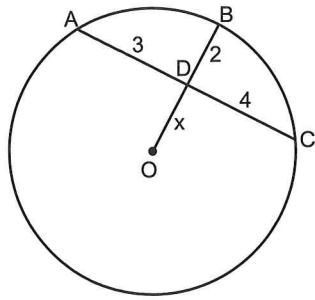
- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

46.



- A) 6 B) 7 C) 8 D) 9 E) 10

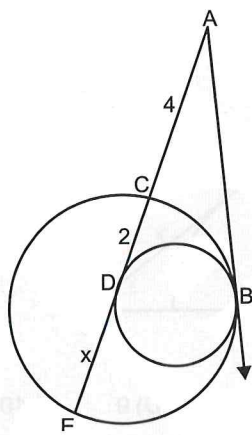
47.



$|DO| = x = ? \text{ cm}$

- A) 1 B) 2 C) 3 D) 4 E) 5

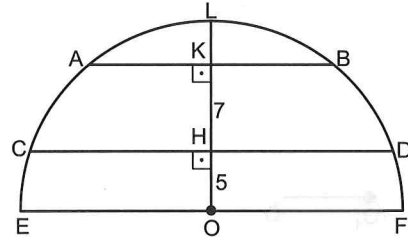
48.



$|DE| = x = ? \text{ cm}$

- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

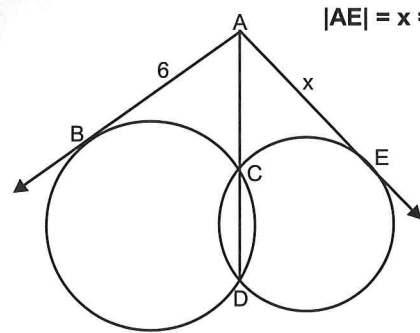
49.



$|AB| = 10 \text{ cm} \Rightarrow |CD| = ? \text{ cm}$

- A) 16 B) 18 C) 20 D) 22 E) 24

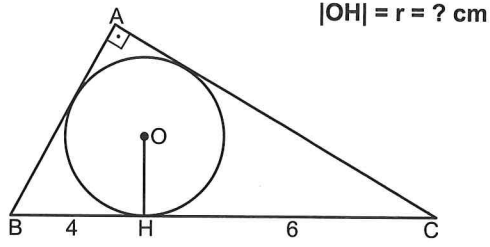
50.



$|AE| = x = ? \text{ cm}$

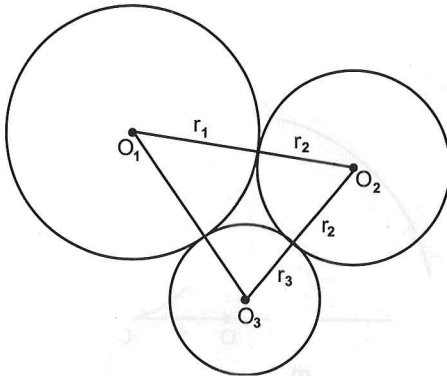
- A) 6 B) 5,5 C) 5 D) 4,5 E) 4

51.



- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

52.



$|O_1O_2| = 12 \text{ cm}$

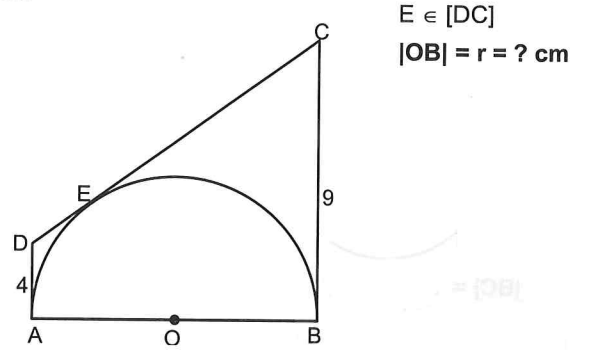
$|O_1O_3| = 10 \text{ cm}$

$|O_2O_3| = 8 \text{ cm}$

$r_2 = ? \text{ cm}$

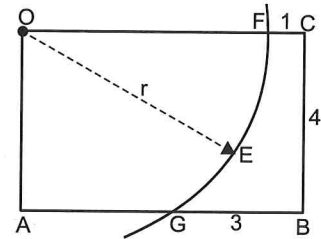
- A) 3 B) 4 C) 5 D) 6 E) 7

53.



- A) 10 B) 9 C) 8 D) 7 E) 6

54.

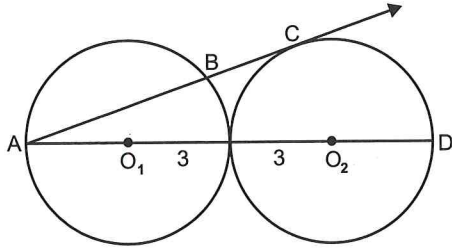


(OABC) dikdörtgen / (OABC is a rectangle)

$|OE| = r = ? \text{ cm}$

- A) 5 B) 6 C) 7 D) 8 E) 9

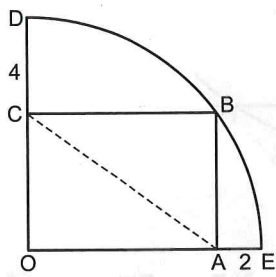
55.



$|BC| = ? \text{ cm}$

- A) $\sqrt{2}$ B) 2 C) $2\sqrt{2}$ D) 3 E) $3\sqrt{2}$

56.



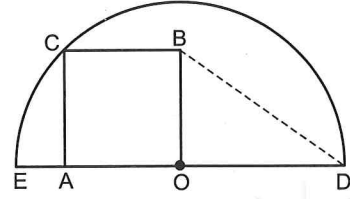
(OABC dikdörtgen)

(OABC is a rectangle)

$|AC| = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 10

57.



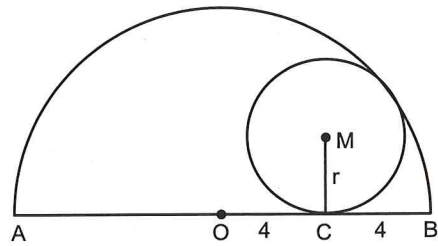
(AOBC) kare / (AOBC is a square)

$A(AOBC) = 4 \text{ cm}^2$

$|BD| = ? \text{ cm}$

- A) $\sqrt{6}$ B) $2\sqrt{2}$ C) $\sqrt{10}$ D) $2\sqrt{3}$ E) 4

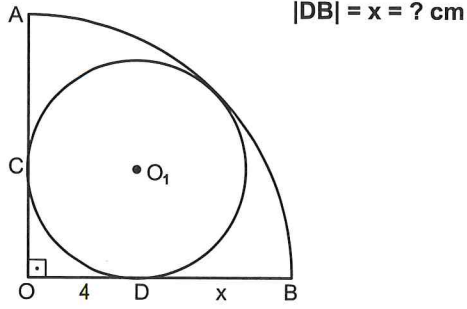
58.



$|MC| = r = ? \text{ cm}$

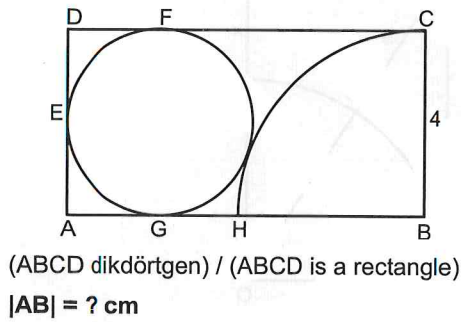
- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

59.



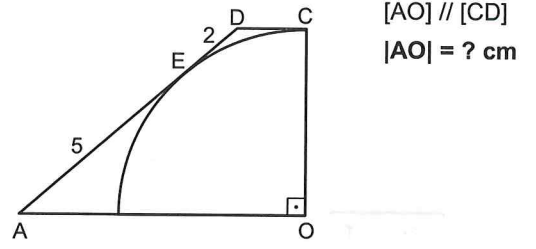
- A) $2\sqrt{3}$ B) 4 C) $2\sqrt{5}$ D) $3\sqrt{2}$ E) $4\sqrt{2}$

60.



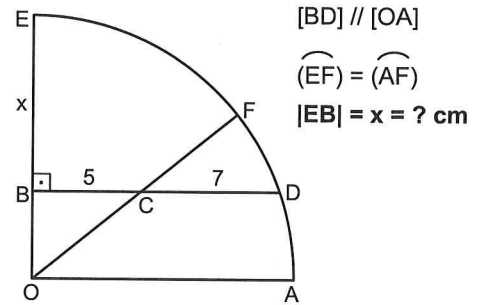
- A) $2+4\sqrt{2}$ B) $3+3\sqrt{2}$ C) $6+4\sqrt{2}$
 D) $8+4\sqrt{2}$ E) $6\sqrt{2}$

61.



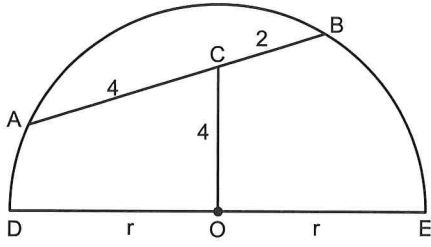
- A) 5 B) 6 C) 7 D) 8 E) 9

62.



- A) 5 B) 6 C) 7 D) 8 E) 9

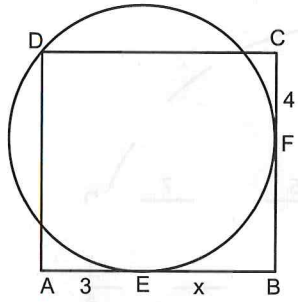
63.



$|DO| = r = ? \text{ cm}$

- A) 4 B) $2\sqrt{5}$ C) $2\sqrt{6}$ D) $2\sqrt{7}$ E) $4\sqrt{2}$

64.

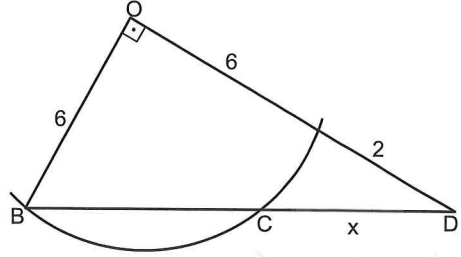


(ABCD) dikdörtgen / (ABCD is a rectangle)

$|EB| = x = ? \text{ cm}$

- A) 3 B) 4 C) 4,5 D) 5 E) 5,5

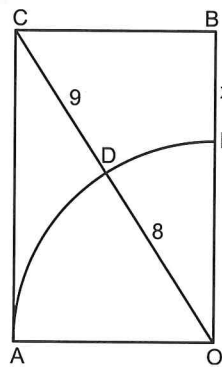
65.



$|CD| = x = ? \text{ cm}$

- A) 2 B) 2,4 C) 2,6 D) 2,8 E) 3

66.



(AOBC) dikdörtgen

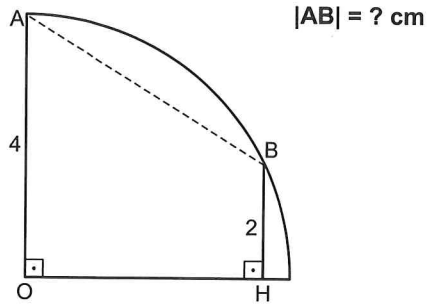
(AOBC is a rectangle)

$D \in [OC]$

$|BE| = x = ? \text{ cm}$

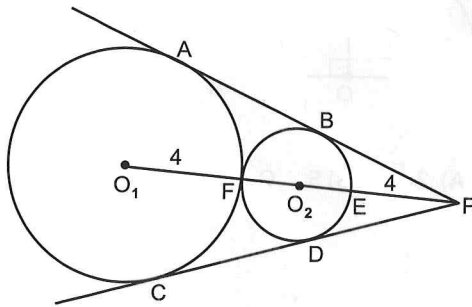
- A) 4 B) 5 C) 6 D) 7 E) 8

67.



- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) 4 D) $3\sqrt{2}$ E) 5

68.

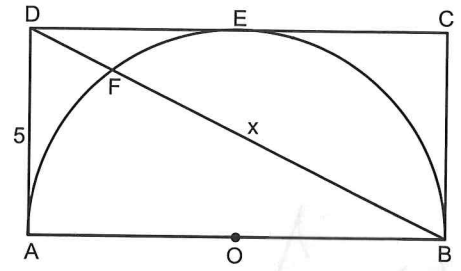


$|O_1F| = |FE| = |EP| = 4 \text{ cm}$

$|AB| + |CD| = ? \text{ cm}$

- A) $4\sqrt{2}$ B) $6\sqrt{2}$ C) $7\sqrt{2}$
 D) $8\sqrt{2}$ E) $9\sqrt{2}$

69.

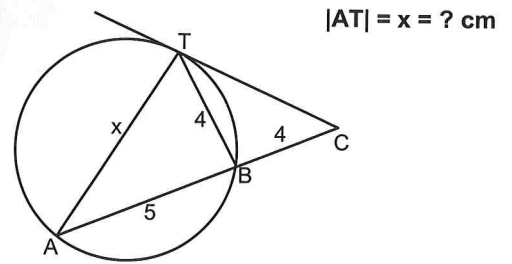


(ABCD) dikdörtgen / (ABCD is a rectangle)

$|FB| = x = ? \text{ cm}$

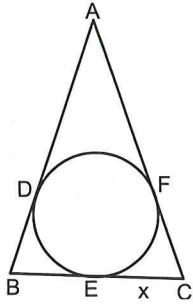
- A) $2\sqrt{5}$ B) $3\sqrt{5}$ C) $4\sqrt{5}$ D) 10 E) 12

70.



- A) 6 B) 7 C) 8 D) 9 E) 10

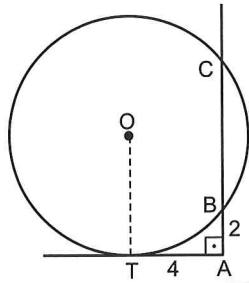
71.



$|AB| = 12 \text{ cm}$
 $|AC| = 13 \text{ cm}$
 $|BC| = 7 \text{ cm}$
 $|EC| = x = ? \text{ cm}$

- A) 2 B) 3 C) 4 D) 5 E) 6

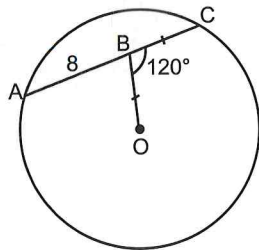
72.



$|OT| = r = ? \text{ cm}$

- A) $2\sqrt{5}$ B) 5 C) $2\sqrt{6}$ D) $2\sqrt{7}$ E) 6

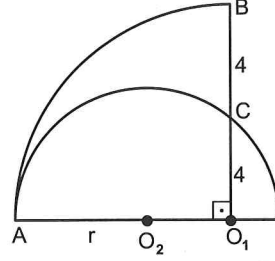
73.



$|OB| = ? \text{ cm}$

- A) 7 B) 6 C) 5 D) 4 E) 3

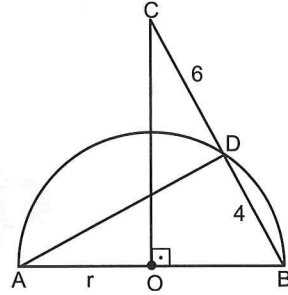
74.



$|AO_2| = r = ? \text{ cm}$

- A) 6,5 B) 6 C) 5,5 D) 5 E) 4,5

75.



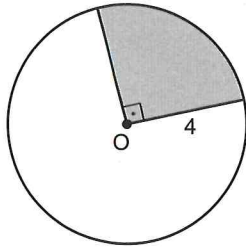
$|AO| = r = ? \text{ cm}$

- A) $2\sqrt{5}$ B) 5 C) $2\sqrt{7}$ D) $4\sqrt{2}$ E) 6

CEVAPLAR / ANSWERS					
1-A	2-E	3-C	4-D	5-C	6-C
7-C	8-C	9-D	10-D	11-B	12-A
13-E	14-D	15-E	16-C	17-B	18-A
19-B	20-C	21-B	22-C	23-E	24-B
25-A	26-C	27-B	28-B	29-A	30-C
31-B	32-E	33-C	34-B	35-C	36-A
37-A	38-A	39-B	40-D	41-B	42-B
43-A	44-E	45-C	46-D	47-B	48-C
49-E	50-A	51-C	52-C	53-E	54-A
55-C	56-E	57-D	58-C	59-E	60-A
61-C	62-D	63-C	64-D	65-D	66-D
67-C	68-D	69-C	70-A	71-C	72-B
73-D	74-D	75-A			

ÜNİTE 3 UNIT 3	DAİRE ALANI THE AREA OF CIRCULAR REGION	BÖLÜM 3 CHAPTER 3
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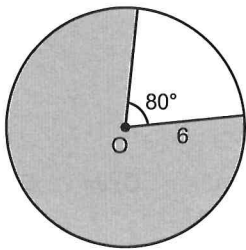
1.



$T.A(SA) = ? \text{ cm}^2$

- A) 2π B) 3π C) 4π D) 6π E) 8π

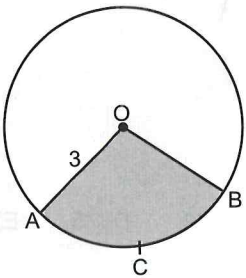
2.



$T.A(SA) = ? \text{ cm}^2$

- A) 28π B) 24π C) 22π D) 16π E) 14π

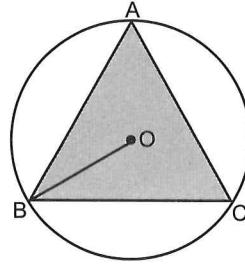
3.



$\widehat{ACB} = 2\pi$
 $T.A(SA) = ? \text{ cm}^2$

- A) π B) 2π C) 3π D) 4π E) 6π

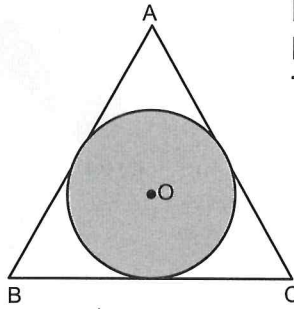
4.



$|AB| = |BC| = |AC|$
 $|OB| = 2 \text{ cm}$
 $A(ABC) = ? \text{ cm}^2$

- A) $2\sqrt{3}$ B) $3\sqrt{3}$ C) $4\sqrt{3}$ D) $5\sqrt{3}$ E) $6\sqrt{3}$

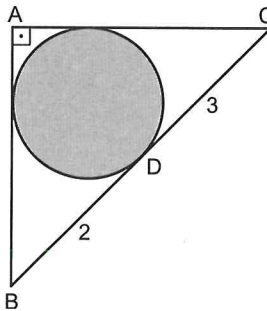
5.



$|AB| = |BC| = |AC|$
 $|BC| = 6 \text{ cm}$
 $T.A(SA) = ? \text{ cm}^2$

- A) π B) 2π C) 3π D) 4π E) 6π

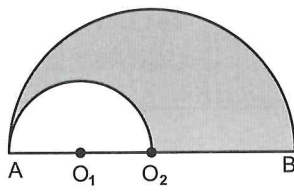
6.



$T.A(SA) = ? \text{ cm}^2$

- A) π B) 2π C) 3π D) 4π E) 5π

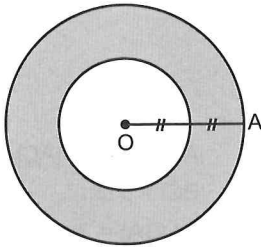
7.



$|AB| = 8 \text{ cm}$
 $T.A(SA) = ? \text{ cm}^2$

- A) 9π B) 8π C) 7π D) 6π E) 5π

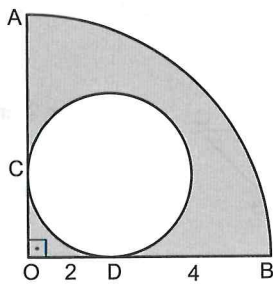
8.



$|OA| = 4 \text{ cm}$
 $T.A(SA) = ? \text{ cm}^2$

- A) 12π B) 11π C) 10π D) 8π E) 6π

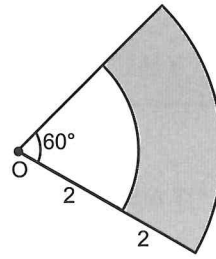
9.



$T.A(SA) = ? \text{ cm}^2$

- A) 9π B) 8π C) 7π D) 6π E) 5π

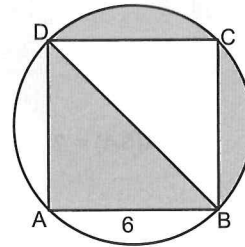
10.



$T.A(SA) = ? \text{ cm}^2$

- A) π B) 2π C) $\frac{5\pi}{2}$ D) 3π E) $\frac{7\pi}{2}$

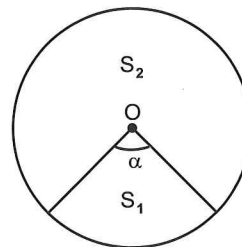
11.



(ABCD) kare
 (ABCD is a square)
 $T.A(SA) = ? \text{ cm}^2$

- A) 12 B) 16 C) 18 D) 9π E) 12π

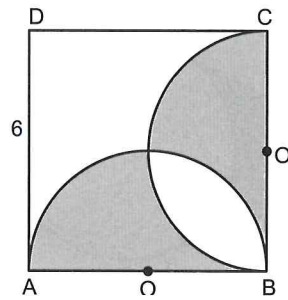
12.



$S_2 = 4 \cdot S_1$
 $\alpha = ?$

- A) 50 B) 60 C) 72 D) 75 E) 80

13.

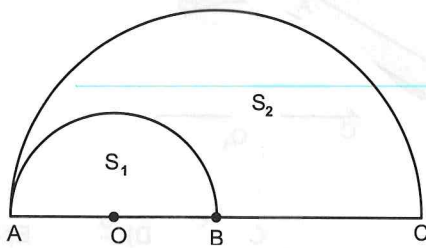


(ABCD) kare / (ABCD is a square)

$\Sigma T.A(SA) = ?$

- A) 12 B) 15 C) 16 D) 18 E) 24

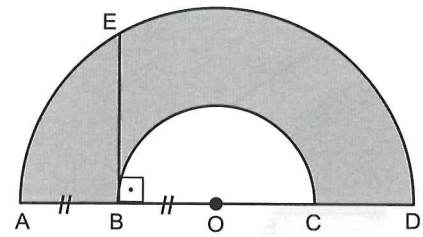
14.



$$2|AB| = 3|BC| \Rightarrow \frac{S_1}{S_2} = ?$$

- A) $\frac{9}{25}$ B) $\frac{9}{10}$ C) $\frac{18}{25}$ D) $\frac{11}{25}$ E) $\frac{9}{16}$

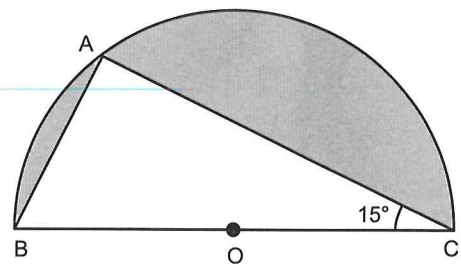
15.



$$|EB| = 2\sqrt{3} \Rightarrow T.A(SA) = ?$$

- A) 8π B) 6π C) 5π D) 4π E) 3π

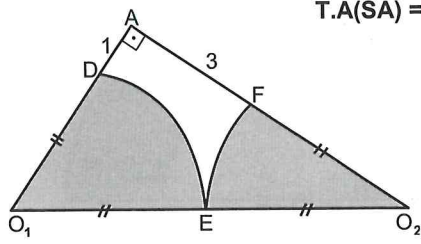
16.



$$|BC| = 12 \text{ cm} \Rightarrow T.A(SA) = ?$$

- A) $24\pi - 18$ B) $18\pi - 18$ C) $16\pi - 16$
D) $16\pi - 8$ E) $12\pi - 8$

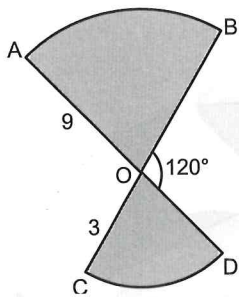
17.



T.A(SA) = ? cm²

- A) 6π B) $\frac{25\pi}{4}$ C) 7π D) $\frac{15\pi}{2}$ E) 8π

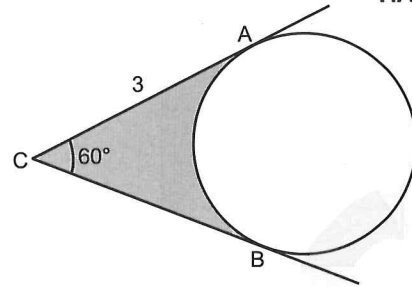
18.



T.A(SA) = ? cm²

- A) 12π B) 13π C) 14π D) 15π E) 16π

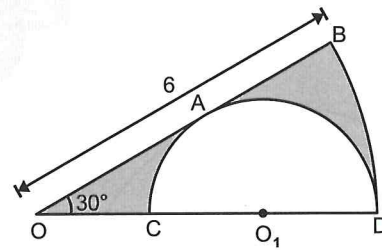
19.



T.A(SA) = ? cm²

- A) $2\sqrt{3} - \pi$ B) $3\sqrt{3} - \pi$ C) $4\sqrt{3} - \pi$
 D) $6\sqrt{3} - 2\pi$ E) $6\sqrt{3} - \pi$

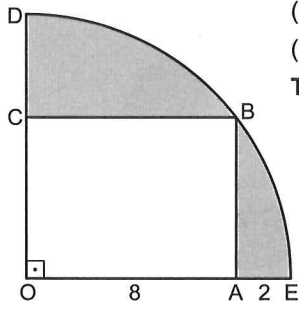
20.



T.A(SA) = ? cm²

- A) π B) 2π C) $\frac{3\pi}{2}$ D) $\frac{5\pi}{2}$ E) 3π

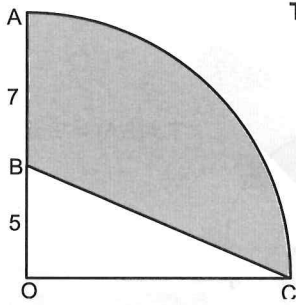
21.



(OABC) dikdörtgen
(OABC is a rectangle)
 $T.A(SA) = ? \text{ cm}^2$

- A) $15\pi - 12$ B) $25\pi - 24$ C) $25\pi - 48$
D) $30\pi - 24$ E) $30\pi - 48$

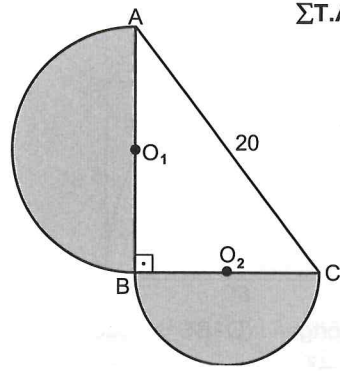
22.



$T.A(SA) = ? \text{ cm}^2$

- A) $36\pi - 30$ B) $36\pi - 15$ C) $36\pi - 25$
D) $30\pi - 30$ E) $30\pi - 15$

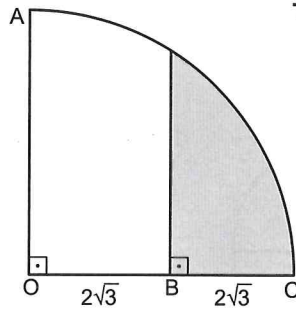
23.



$\Sigma T.A = ? \text{ cm}^2$

- A) 9π B) 16π C) 25π D) 30π E) 50π

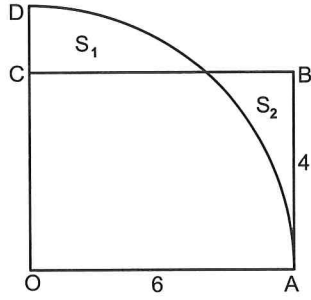
24.



$T.A(SA) = ? \text{ cm}^2$

- A) $6\pi - 4\sqrt{3}$ B) $8\pi - 6\sqrt{3}$ C) $8\pi - 4\sqrt{3}$
D) $6\pi - 2\sqrt{3}$ E) $6\pi - 6$

25.

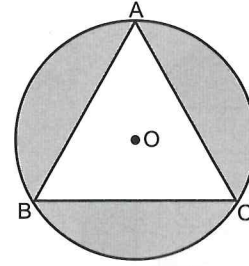


(OABC) dikdörtgen / (OABC is a rectangle)

$S_1 - S_2 = ? \text{ cm}^2$

- A) $12\pi - 18$ B) $9\pi - 24$ C) $9\pi - 22$
 D) $8\pi - 20$ E) $6\pi - 12$

27.

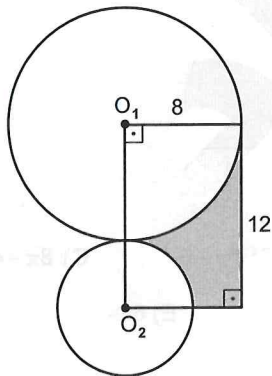


$|AB| = |BC| = |AC| = 6 \text{ cm}$

T.A (SA) = ? cm^2

- A) $12\pi - 9\sqrt{3}$ B) $12\pi - 8\sqrt{3}$ C) $12\pi - 6\sqrt{3}$
 D) $12\pi - 4\sqrt{3}$ E) $12\pi - 3\sqrt{3}$

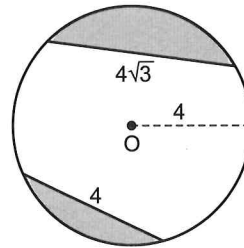
26.



T.A(SA) = ? cm^2

- A) $96 - 10\pi$ B) $96 - 12\pi$ C) $96 - 16\pi$
 D) $96 - 18\pi$ E) $96 - 20\pi$

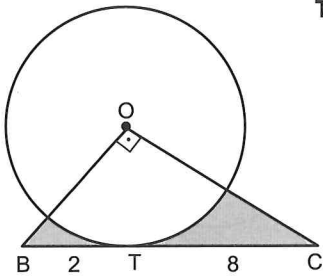
28.



T.A(SA) = ? cm^2

- A) $8\pi - 6\sqrt{3}$ B) $8\pi - 7\sqrt{3}$ C) $8\pi - 8\sqrt{3}$
 D) $8\pi - 9\sqrt{3}$ E) $9\pi - 9\sqrt{3}$

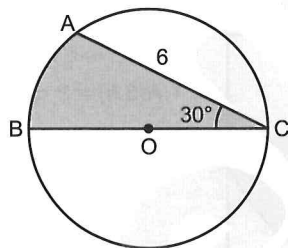
29.



T.A(SA) = ? cm²

- A) $18 - 3\pi$ B) $16 - 4\pi$ C) $20 - 5\pi$
 D) $20 - 3\pi$ E) $20 - 4\pi$

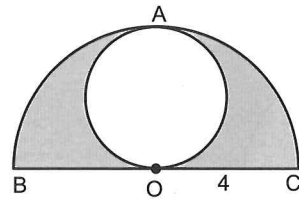
30.



T.A(SA) = ? cm²

- A) $2\pi + 3\sqrt{3}$ B) $\pi + \sqrt{3}$ C) $\pi + 2\sqrt{3}$
 D) $2\pi + \sqrt{3}$ E) $\pi + 3$

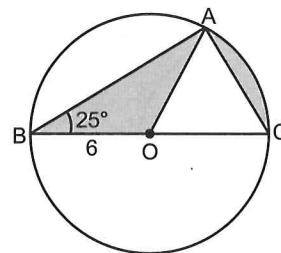
31.



T.A(SA) = ? cm²

- A) 3π B) 4π C) 5π D) 6π E) 7π

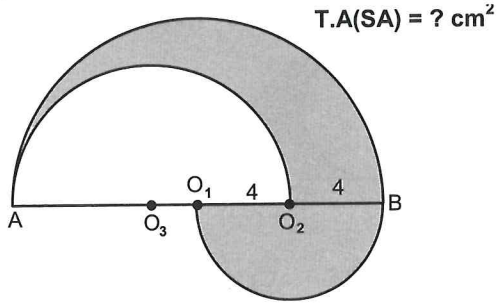
32.



T.A(SA) = ? cm²

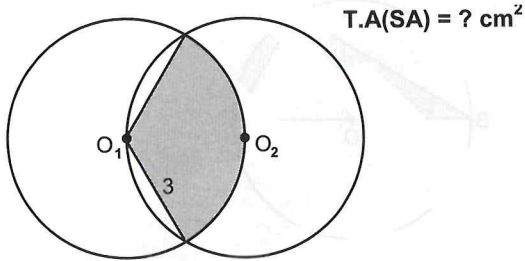
- A) 2π B) 3π C) 4π D) 5π E) 6π

33.



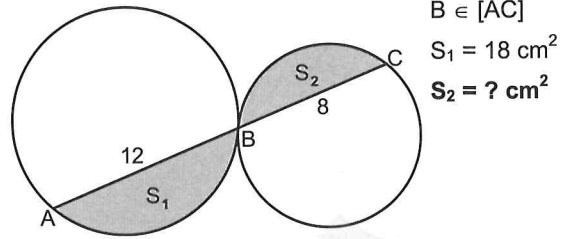
- A) 18π B) 20π C) 21π D) 22π E) 24π

34.



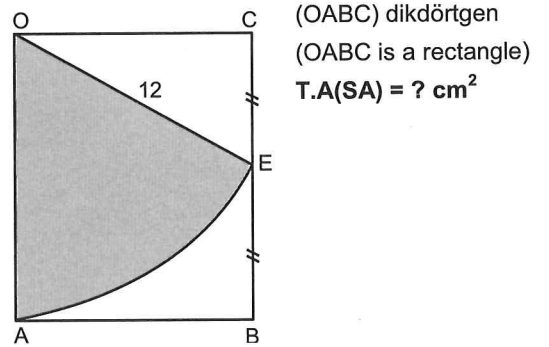
- A) 2π B) 3π C) 4π D) 5π E) 6π

35.



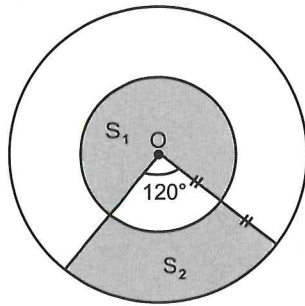
- A) 4 B) 6 C) 8 D) 10 E) 12

36.



- A) 24π B) 22π C) 20π D) 18π E) 16π

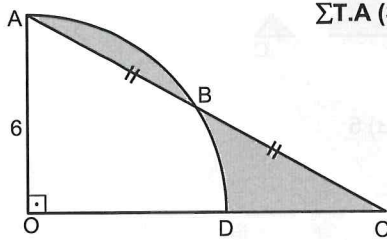
37.



$$\frac{S_1}{S_2} = ?$$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$ E) $\frac{3}{5}$

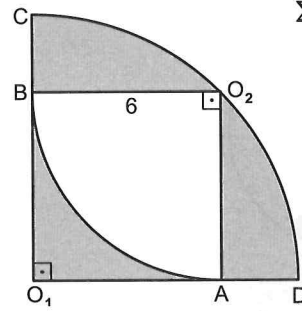
38.



$$\Sigma T.A (S.A) = ? \text{ cm}^2$$

- A) π B) 2π C) 3π D) 4π E) 5π

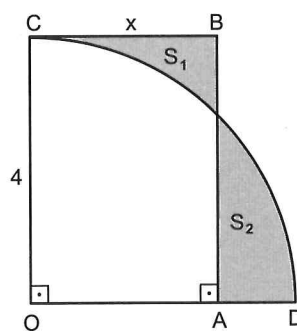
39.



$$\Sigma T.A (S.A) = ? \text{ cm}^2$$

- A) 6π B) 7π C) 8π D) 9π E) 10π

40.

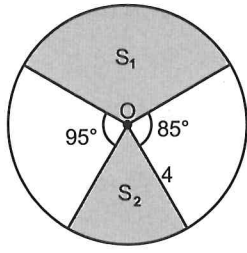


$$S_1 = S_2$$

$$x = ? \text{ cm}$$

- A) 2 B) 3 C) $\sqrt{3}$ D) π E) $2\sqrt{3}$

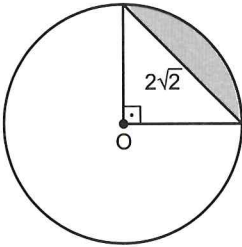
41.



$S_1 + S_2 = ? \text{ cm}^2$

- A) 8π B) 10π C) 12π D) 14π E) 16π

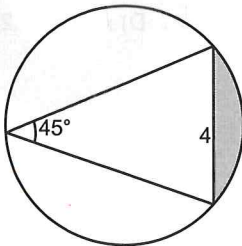
42.



$T.A(S.A) = ? \text{ cm}^2$

- A) $\pi - 3$ B) $\pi - 2$ C) $\pi - 1$
D) $2\pi - 3$ E) $2\pi - 4$

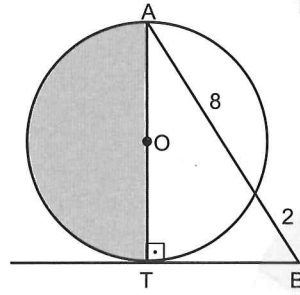
43.



$T.A(S.A) = ? \text{ cm}^2$

- A) $\pi - 3$ B) $2\pi - 3$ C) $3\pi - 6$
D) $3\pi - 4$ E) $2\pi - 4$

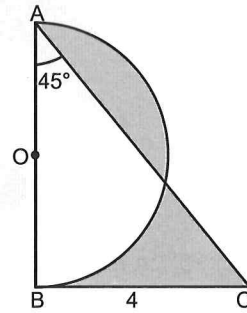
44.



$T.A(S.A) = ? \text{ cm}^2$

- A) 5π B) 6π C) 8π D) 10π E) 12π

45.



$\Sigma T.A(S.A) = ? \text{ cm}^2$

- A) 4 B) 5 C) 6 D) 7 E) 8

YANITLAR / ANSWER					
1-C	2-A	3-C	4-B	5-C	6-A
7-D	8-A	9-E	10-B	11-D	12-C
13-D	14-E	15-B	16-B	17-B	18-D
19-B	20-A	21-C	22-A	23-E	24-B
25-B	26-E	27-A	28-C	29-E	30-A
31-B	32-D	33-D	34-B	35-C	36-A
37-C	38-C	39-D	40-D	41-A	42-B
43-E	44-D	45-A			

ÜNİTE 3

UNIT 3

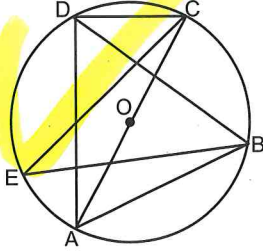
ÇEMBER VE DAİRE YÖS SORULARI

CIRCLE AND CIRCULAR YÖS QUESTIONS

ALİŞTIRMALAR

EXERCISES

1.



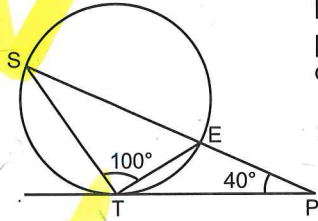
O çemberin merkezidir.
(O is the center of circle)

$$m(\hat{A}DB) = 70^\circ$$

$$m(\hat{C}EB) + m(\hat{C}AB) = ?$$

- A) 20 B) 40 C) 60 D) 75 E) 80

2.

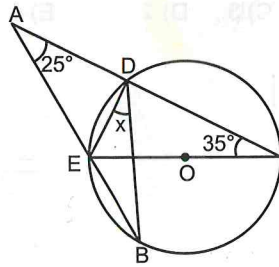


[PT çembere teğet
[PT is tangent to circle)

$$m(\hat{T}SP) = ?$$

- A) 20 B) 30 C) 40 D) 50 E) 60

3.

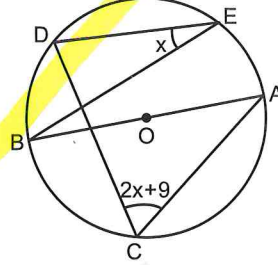


O çemberin merkezi
(O, is the center of circle)

$$m(\hat{E}DB) = ?$$

- A) 10 B) 15 C) 20 D) 25 E) 30

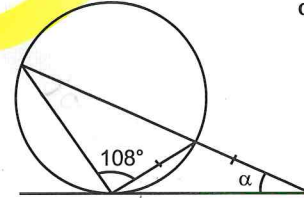
4.



$$m(\hat{B}ED) = x = ?$$

- A) 24 B) 26 C) 27 D) 30 E) 33

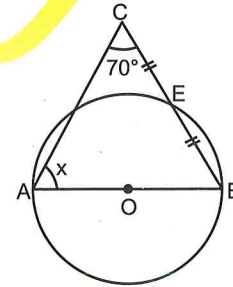
5.



$$\alpha = ?$$

- A) 20 B) 22 C) 24 D) 26 E) 28

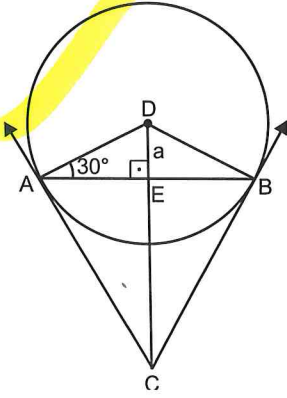
6.



$$x = ?$$

- A) 20 B) 25 C) 30 D) 40 E) 45

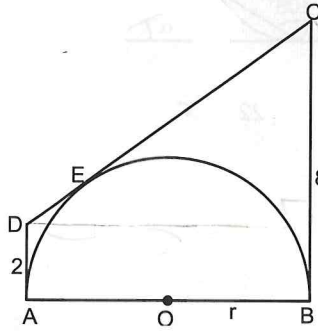
7.



D çemberin merkezidir.
(D, center of circle)
 $|DE| = a$
 $[DE] \perp [AB]$
 $m(\hat{DAE}) = 30^\circ$
 $|EC| = ? \text{ cm}$

- A) $2a$ B) $\sqrt{2a}$ C) $\sqrt{3a}$ D) $3a$ E) $2\sqrt{3a}$

8.

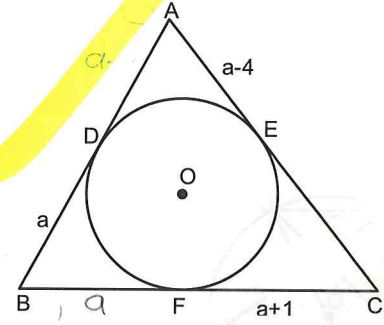


O merkezli çemberde A, B, E teğet noktaları
(O, center of circle, A, B, E is tangent to the circle)

$|AD| = 2 \text{ cm}$
 $|BC| = 8 \text{ cm}$
 $|OB| = r = ? \text{ cm}$

- A) 3 B) 4 C) 5 D) 6 E) 7

9.



Şekildeki O merkezli çember ABC üçgeninin iç teğet çemberidir.

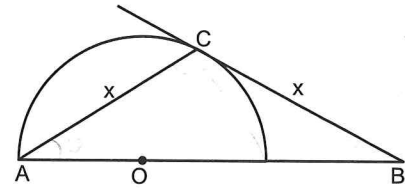
(The circle with center O in the figure is the inscribed circle of the triangle ABC)

$|AB| + |AC| + |BC| = 66$

$a = ? \text{ cm}$

- A) 6 B) 7 C) 8 D) 9 E) 12

10.



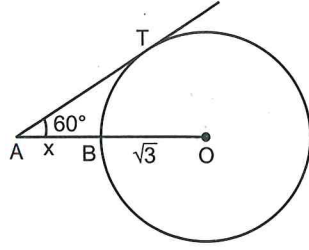
$|OA| = 2 \text{ cm}$

$|AC| = |CB| = x$

$x = ? \text{ cm}$

- A) 2 B) $2\sqrt{2}$ C) 3 D) $2\sqrt{3}$ E) 4

11.

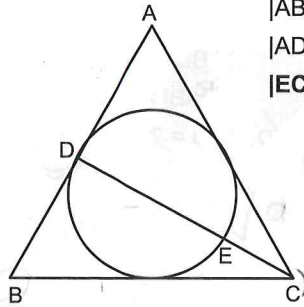


O noktası şekildeki çemberin merkezidir.
(Point O is the center of the circle)

$x = ?$

- A) $\sqrt{3} - 1$ B) $\sqrt{3}$ C) $2 - \sqrt{3}$
D) $2\sqrt{3}$ E) $3 - \sqrt{3}$

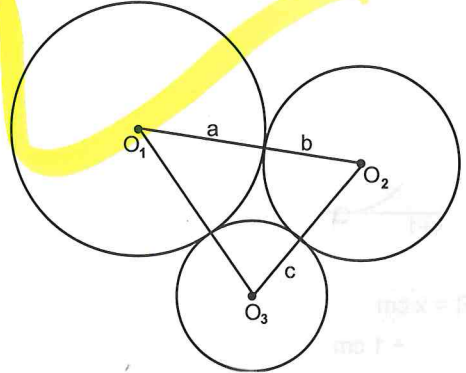
12.



$|AB| = |BC| = |CA| = 10\text{cm}$
 $|AD| = |BD|$
 $|EC| = ? \text{ cm}$

- A) $\frac{5\sqrt{3}}{3}$ C) $\frac{3\sqrt{3}}{5}$ C) $2\sqrt{5}$
D) $5\sqrt{3} - 1$ E) $\frac{15\sqrt{3} - 2}{3}$

13.



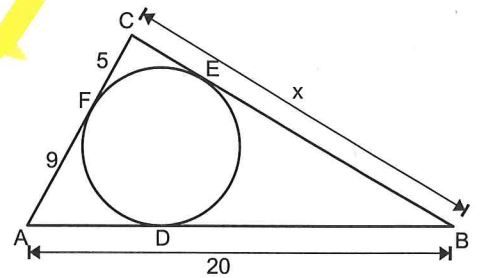
$|O_1O_2| = 8$, $|O_1O_3| = 7$, $|O_2O_3| = 5$

O_1, O_2, O_3 çemberlerin merkezlerini gösterir.
(O_1, O_2 and O_3 stand for centers of circles)

$a + b + c = ?$

- A) 20 B) 17 C) 18 D) 12 E) 10

14.

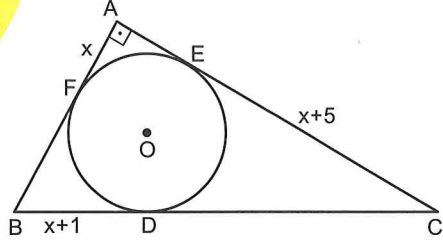


$|CF| = 5 \text{ cm}$, $|FA| = 9 \text{ cm}$, $|AB| = 20 \text{ cm}$

$|CB| = x = ? \text{ cm}$

- A) 21 B) 19 C) 16 D) 15 E) 13

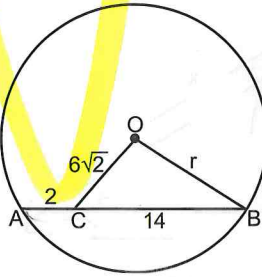
15.



$|AF| = x$ cm
 $|BD| = x + 1$ cm
 $|CE| = x + 5$ cm
 $|AB| + |BC| + |CA| = 42$ cm
 $x = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

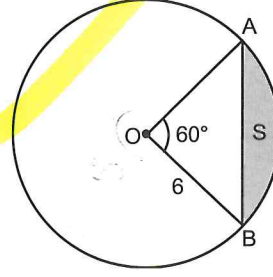
16.



$C \in [AB]$
 $|AC| = 2$ cm
 $|CB| = 14$ cm
 $|OC| = 6\sqrt{2}$ cm
 $|OB| = r = ?$ cm

- A) 7 B) 8 C) 10 D) 11 E) 12

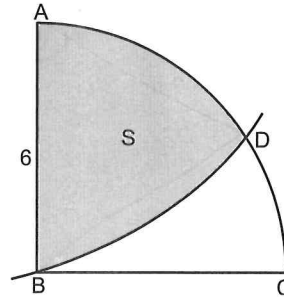
17.



$S = ?$

- A) 2π B) $9\sqrt{3} - 2\pi$ C) $4\pi + 9\sqrt{3}$
 D) $6\pi - 9\sqrt{3}$ E) $6\pi - 9$

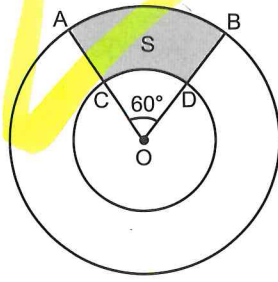
18.



B merkezli AC çeyrek çember ve A merkezli BD yayı çizilmiştir.
 $|AB| = 6$ cm
 $S = ?$

- A) $12\pi - 9\sqrt{3}$ B) $12\pi - 8\sqrt{3}$ C) $6\pi - 6\sqrt{3}$
 D) $12\pi - 6\sqrt{3}$ E) $12\pi - 3\sqrt{3}$

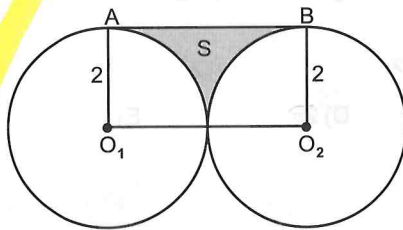
19.



$|AO| = 2$
 $|CO| = 1$
 $|OA| = |OB|$
 $|OC| = |OD|$
 $m(\widehat{AOB}) = 60^\circ$
 $S = ? \text{ br}^2 (\text{u}^2)$

- A) $2 - \pi$ B) $\frac{\pi}{2}$ C) $8 - 4\pi$
 D) $\frac{3\pi}{10}$ E) $\frac{2\pi}{5}$

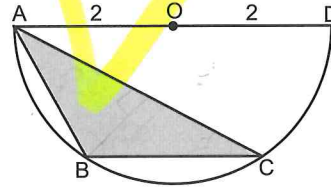
20.



$S = ? \text{ br}^2 (\text{unit square})$

- A) $8 - 2\pi$ B) $8 - \pi$ C) $8 - 4\pi$
 D) 2π E) 4π

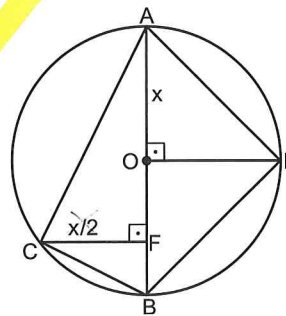
21.



$\widehat{AB} = \widehat{BC} = \widehat{CD}$
 $|AO| = |OD| = 2$
 $A(\triangle ABC) = ? \text{ cm}^2$

- A) $6\sqrt{3}$ B) $4\sqrt{3}$ C) $2\sqrt{3}$
 D) $\sqrt{3}$ E) $\frac{\sqrt{3}}{2}$

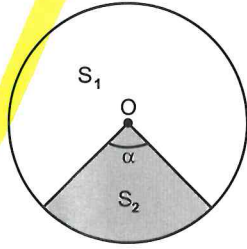
22.



$[OD] \perp [AB]$
 $[CF] \perp [AB]$
 $|OA| = x$
 $|CF| = \frac{x}{2}$
 $\frac{A(\triangle ACB)}{A(\triangle ADB)} = ?$

- A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) $\frac{3}{2}$ D) 1 E) 2

23.

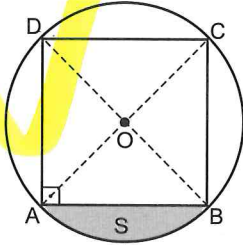


$$\frac{S_1}{S_2} = \frac{7}{2}$$

$$\alpha = ?$$

- A) 50 B) 60 C) 70 D) 80 E) 90

24.



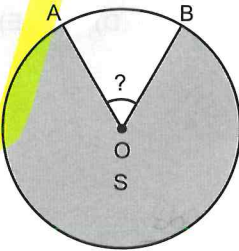
$$|AB|=|BC|=|CD|=|DA|$$

$$S = \left(\frac{\pi}{2} - 1\right) \text{ cm}^2$$

$$|OD| = ? \text{ cm}$$

- A) $2\sqrt{2}$ B) 2 C) $\sqrt{2}$ D) $\frac{\sqrt{2}}{2}$ E) 1

25.



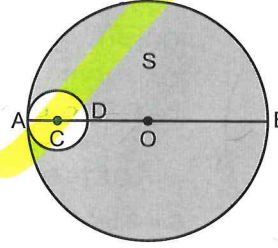
$$|OA| = 6 \text{ cm}$$

$$S = 33\pi \text{ cm}^2$$

$$m(\hat{AOB}) = ?$$

- A) 15 B) 30 C) 45 D) 50 E) 75

26.



$$|AC| = |CD|$$

$$|AO| = |OB|$$

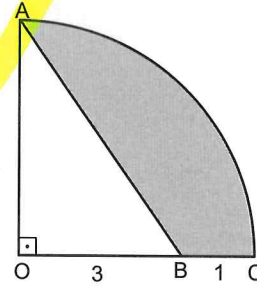
$$|AD| = |DO|$$

$$S = 15\pi \text{ cm}^2$$

$$|AB| = ? \text{ cm}$$

- A) $2\sqrt{3}$ B) $2\sqrt{5}$ C) $\frac{\sqrt{15}}{2}$ D) 5 E) 8

27.



$$|OB| = 3 \text{ cm}$$

$$|BC| = 1 \text{ cm}$$

$$T.A(S.A) = ? \text{ cm}^2$$

- A) $4\pi - 6$ B) $4\pi - 3$ C) $4\pi - 9$
D) $2\pi - 3$ E) $2\pi - 4$

CEVAPLAR / ANSWERS

1-B	2-A	3-E	4-C	5-C	6-D
7-D	8-B	9-E	10-D	11-C	12-A
13-E	14-C	15-A	16-C	17-D	18-A
19-B	20-A	21-D	22-B	23-D	24-C
25-B	26-E	27-A			

ÜNİTE 4

UNIT 4

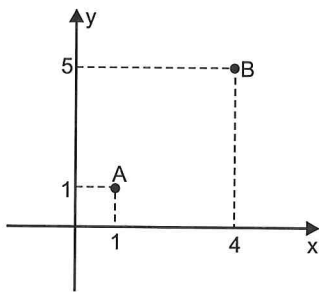
ANALİTİK GEOMETRİ

ANALYTIC GEOMETRY

★ DOĞRUNUN ANALİTİĞİ	239-252
LINE IN ANALYTIC GEOMETRY	
★ ÇEMBER ANALİTİĞİ	253-262
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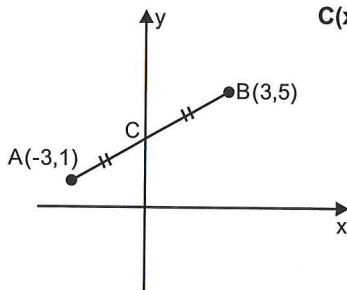
ÜNİTE
UNIT 4
DOĞRUNUN ANALİTİĞİ
LINE IN ANALYTIC GEOMETRY
BÖLÜM
CHAPTER 1

1.

 $|AB| = ?$

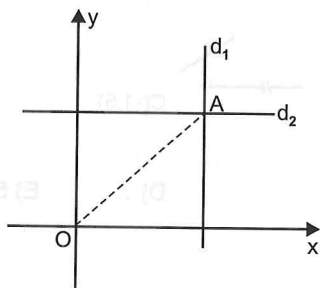
- A) 5 B) 4 C) 3 D) $3\sqrt{5}$ E) $2\sqrt{5}$

2.

 $C(x, y) = ?$

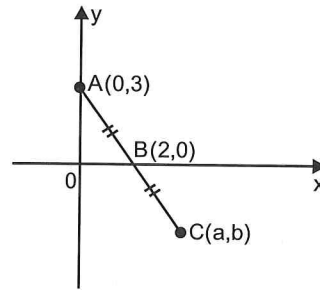
- A) (3,0) B) (2,0) C) (4,0)
 D) (0,2) E) (0,3)

3.


 $d_1: x = 3$
 $d_2: y = 3$
 $|OA| = ?$

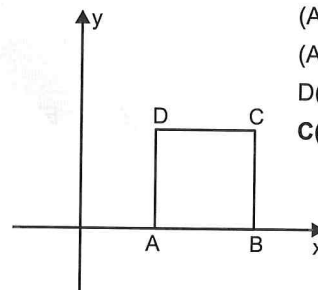
- A) 5 B) 6 C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) $5\sqrt{2}$

4.


 $C(a, b)$
 $a + b = ?$

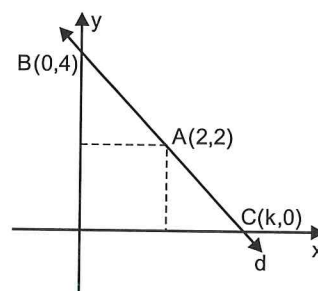
- A) -1 B) 0 C) 1 D) 2 E) 3

5.


 (ABCD) kare
 (ABCD is a square)
 $D(2, 4)$
 $C(a, b) = ?$

- A) (6,3) B) (4,4) C) (4,5)
 D) (6,4) E) (5,4)

6.

 $k = ?$

- A) 5 B) 4 C) 3 D) $\frac{10}{3}$ E) $\frac{11}{3}$

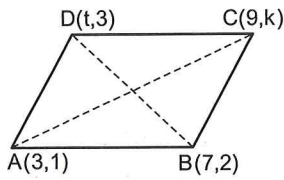
7. $A(-1,7)$, $B(9,2)$, $C \in [AB]$

2. $|AC| = 3|CB|$

$C(x,y) = ?$

- A) (5,3) B) (5,4) C) (5,5)
D) (6,3) E) (7,3)

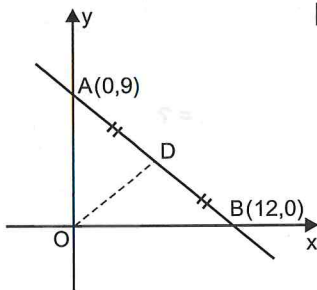
8.



(ABCD) paralelkenar
(ABCD is a parallelogram)
 $k + t = ?$

- A) 10 B) 9 C) 8 D) 7 E) 6

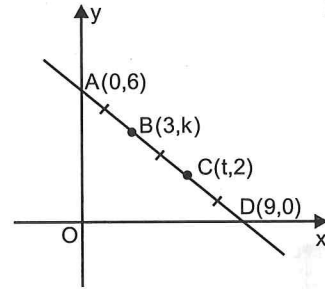
9.



$|OD| = ?$

- A) 5 B) 6 C) $\frac{15}{2}$ D) 8 E) $\frac{19}{2}$

10.



$k + t = ?$

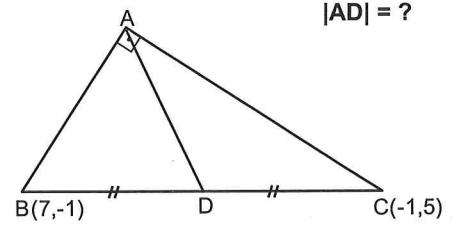
- A) 10 B) 9 C) 8 D) 7 E) 6

11. $A(2,1)$, $B(2,4)$, $C(6,1)$

$A(ABC) = ?$

- A) 3 B) 4 C) 5 D) 6 E) 8

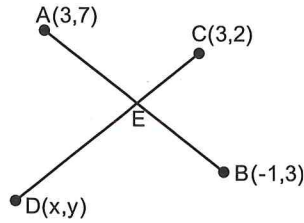
12.



$|AD| = ?$

- A) 3 B) $\sqrt{10}$ C) $2\sqrt{3}$ D) $3\sqrt{2}$ E) 5

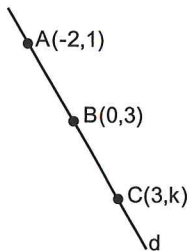
13.



$[DC] \cap [AB] = \{E\}$
 $|AE| = |EB|$
 $|DE| = 2 \cdot |EC|$
 $D(x,y) = ?$

- A) (-3,11) B) (-1,12) C) (0,10)
 D) (1,9) E) (2,9)

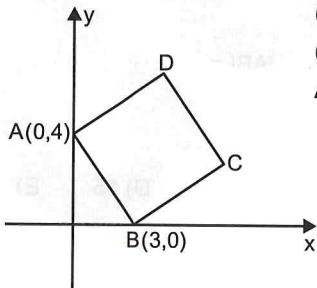
14.



$A \in d$
 $B \in d$
 $C \in d$
 $k = ?$

- A) 9 B) 7 C) 6 D) 4 E) 5

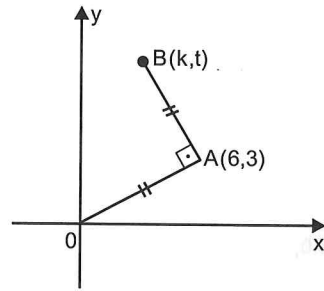
15.



(ABCD) kare
 (ABCD is a square)
 $A(ABCD) = ? br^2 (u^2)$

- A) 16 B) 20 C) 25 D) 30 E) 36

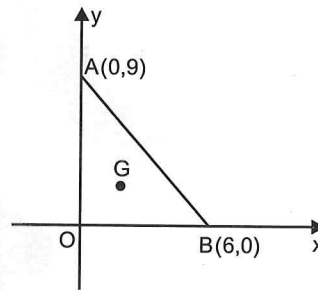
16.



$B(k,t) = ?$

- A) (4,7) B) (4,9) C) (3,7)
 D) (2,8) E) (3,9)

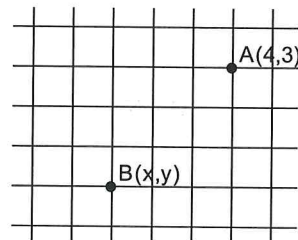
17.



$G, (\triangle AOB)$ ağırlık merkezi,
 (G is center of the gravity)
 $G(a, b) = ?$

- A) (1,2) B) (2,3) C) (2,4)
 D) (3,4) E) (3,3)

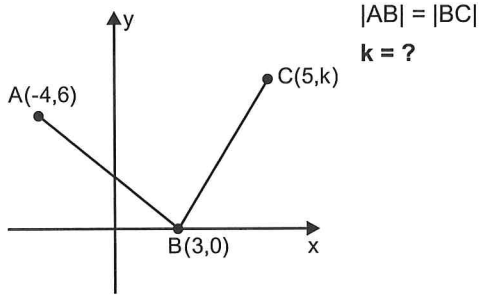
18.



$B(x,y) = ?$

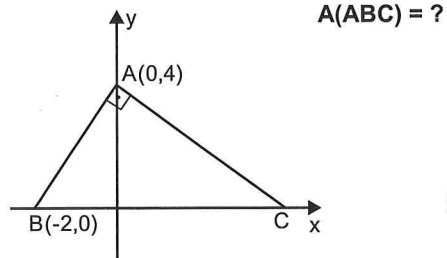
- A) (1,-1) B) (1,0) C) (0,-1)
 D) (-1,-1) E) (2,0)

19.



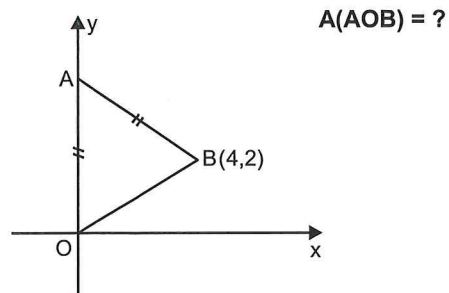
- A) 6 B) 7 C) 8 D) 9 E) 10

20.



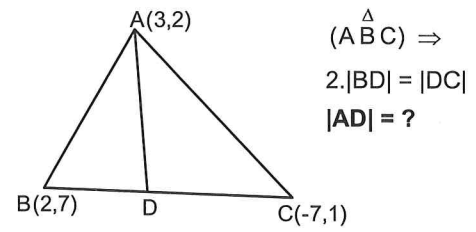
- A) 40 B) 35 C) 30 D) 25 E) 20

21.



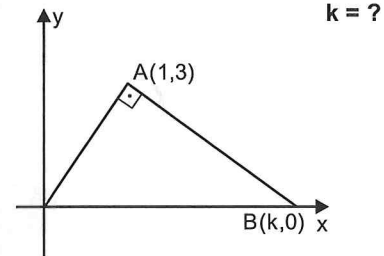
- A) 5 B) 6 C) 7 D) 8 E) 10

22.



- A) 5 B) 4 C) $3\sqrt{2}$ D) $4\sqrt{2}$ E) $5\sqrt{2}$

23.



- A) 9 B) 10 C) 11 D) 12 E) 13

24. $A(7, 3)$, $B(k, 0)$, $|AB| = 5$
 $\Sigma k = ?$

- A) 11 B) 13 C) 14 D) 15 E) 17

25. $A(0,7)$, $B(5,-5)$, $C(-6,4)$, $O(0,0)$

$$|OA| = a, |OB| = b, |OC| = c$$

$$? < ? < ?$$

- A) $a < b < c$ B) $a < c < b$ C) $b < a < c$
 D) $b < c < a$ E) $c < a < b$

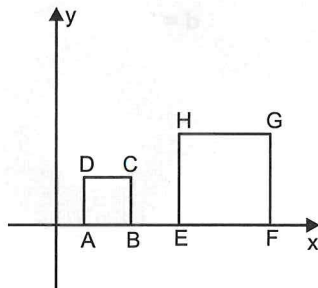
26. $A(4, k-2)$, $B(m+3, 7)$

$$A \in [Ox, B \in [Oy$$

$$C(k, m) = ?$$

- A) (2,3) B) (-2,3) C) (2,-3)
 D) (-2,-3) E) (3,2)

27.



(ABCD) ve (EFGH)
birer kare

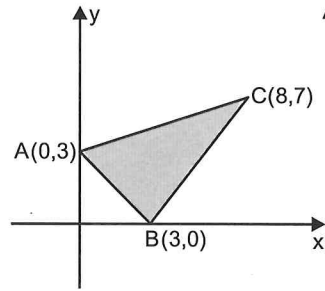
(ABCD and EFGH
are squares)

$$D(2,3), G(14,6),$$

$$|CH| = ?$$

- A) $2\sqrt{3}$ B) $3\sqrt{2}$ C) $2\sqrt{5}$ D) 5 E) $2\sqrt{6}$

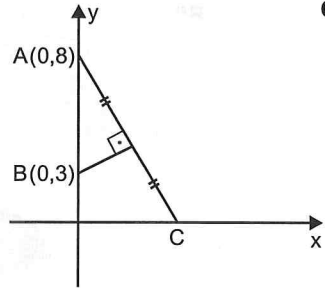
28.



$$A(ABC) = ? \text{ br}^2 (\text{u}^2)$$

- A) 22 B) 20 C) 18 D) 16 E) 15

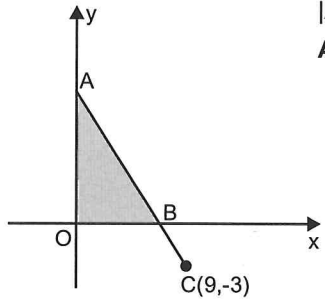
29.



$$C(?, ?) = ?$$

- A) (0,4) B) (3,0) C) (5,0)
 D) (4,0) E) (0,3)

30.

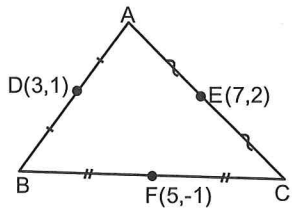


$$|AB| = 2 \cdot |BC|$$

$$A(AOB) = ? \text{ br}^2 (\text{u}^2)$$

- A) 12 B) 14 C) 15 D) 16 E) 18

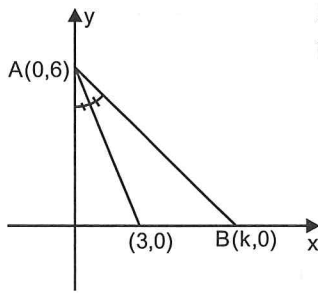
31.



$A(x,y) = ?$

- A) (7,6) B) (5,3) C) (6,5)
D) (5,4) E) (7,4)

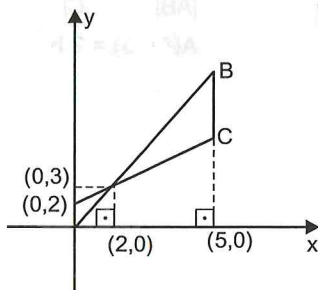
32.



$B(k,0)$
 $k = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

33.



$|BC| = ?$ br (unit)

- A) 3 B) 4 C) 5 D) 6 E) 7

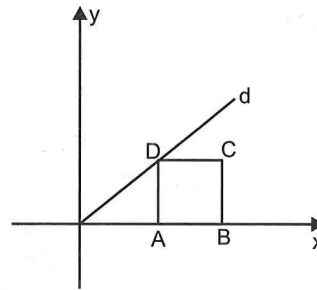
34.



$[AB] \in d$
 $d = ?$

- A) $x + y = 5$ B) $x + y = 10$
C) $x + 2y = 10$ D) $2x + y = 5$
E) $2x + 2y = 5$

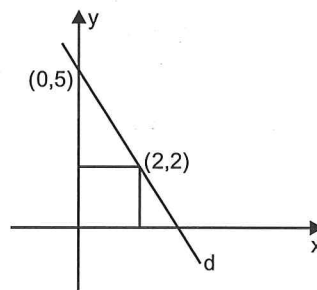
35.



(ABCD) kare
(ABCD is a square)
 $C(6,2)$
 $d = ?$

- A) $y = x$ B) $y = 2x$ C) $2y = x$
D) $3y = x$ E) $3y = 2x$

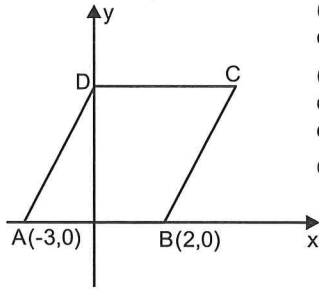
36.



$d = ?$

- A) $2y + 3x = 5$ B) $2x + 3y = 5$
C) $2x + 3y = 10$ D) $3x + 2y = 15$
E) $2y + 3x = 10$

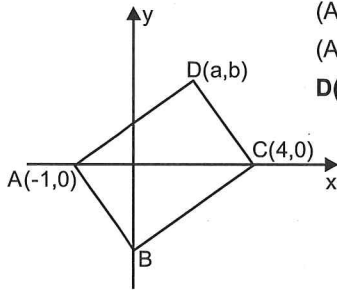
37.



(ABCD) eşkenar dörtgen
(ABCD is an equilateral quadrangle)
 $C(a,b) = ?$

- A) (5,5) B) (4,4) C) (5,4)
D) (4,5) E) (5,3)

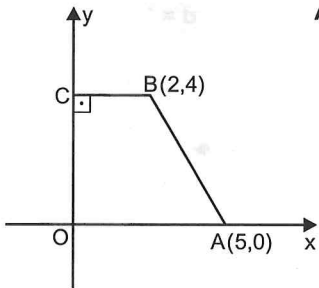
38.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $D(a,b) = ?$

- A) (2,2) B) (3,3) C) (2,3)
D) (3,2) E) (3,1)

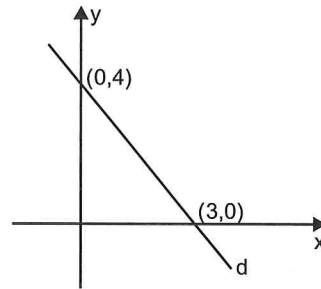
39.



$A(OABC) = ? \text{ br}^2 \text{ (u}^2\text{)}$

- A) 15 B) 14 C) 13 D) 12 E) 10

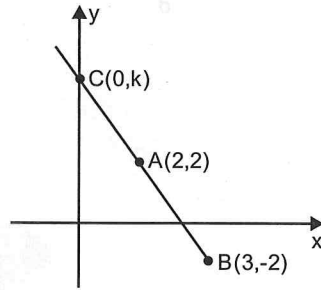
40.



$d = ?$

- A) $4x + 3y = 12$ B) $2x + 3y = 6$
C) $4x + 3y = 6$ D) $3x + 2y = 12$
E) $4x - 3y = 12$

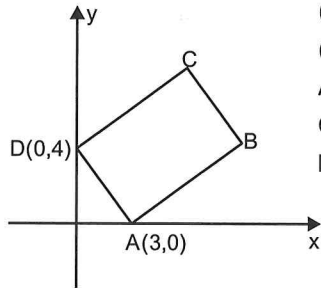
41.



$k = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

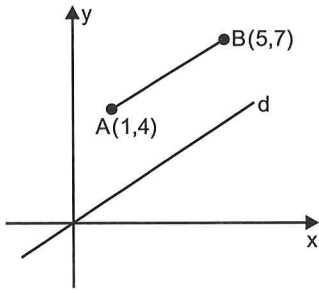
42.



(ABCD) dikdörtgen
(ABCD is a rectangle)
 $A(ABCD) = 50 \text{ br}^2 \text{ (u}^2\text{)}$
 $C(k,m)$
 $k + m = ?$

- A) 20 B) 18 C) 17 D) 15 E) 14

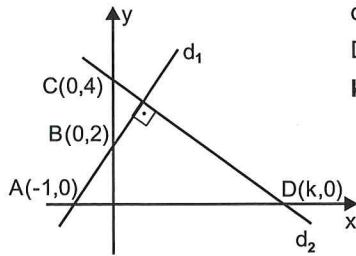
43.



$[AB] \parallel d$
 $d: y = mx$
 $m = ?$

- A) $\frac{2}{3}$ B) $\frac{3}{4}$ C) $\frac{4}{5}$ D) $\frac{3}{5}$ E) $\frac{1}{2}$

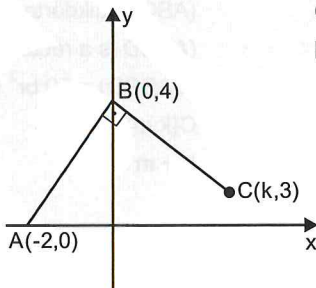
44.



$d_1 \perp d_2$
 $D(k,0)$
 $k = ?$

- A) 11 B) 10 C) 9 D) 8 E) 7

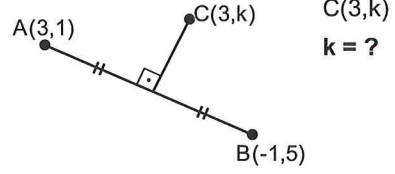
45.



$C(k,3)$
 $k = ?$

- A) 2 B) 2,5 C) 3 D) 3,4 E) 4

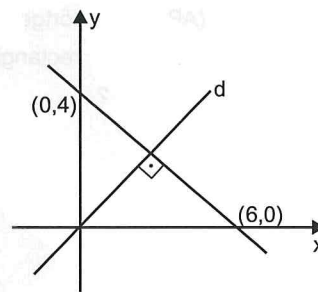
46.



$C(3,k)$
 $k = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

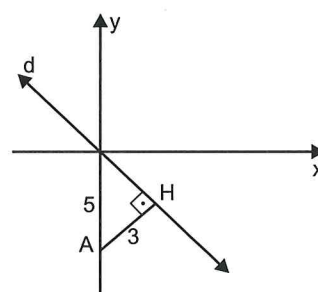
47.



$d = ?$

- A) $y = 2x$ B) $y = \frac{3}{2}x$ C) $y = \frac{2}{3}x$
 D) $y = x$ E) $y = \frac{4}{3}x$

48.



$d = ?$

- A) $y = 2x$ B) $y = -x$ C) $4y = 3x$
 D) $y = -2x$ E) $3y = -4x$

49. $d_1: x + ay + 8 = 0$

$d_2: 2x - 4y + 4 = 0$

$d_1 \parallel d_2$

$a = ?$

- A) -3 B) -2 C) -1 D) 2 E) 3

50. $d_1: x + 3y - 5 = 0$

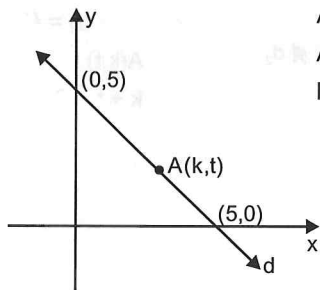
$d_2: ax + y - 2 = 0$

$d_1 \perp d_2$

$a = ?$

- A) -3 B) -2 C) -1 D) 2 E) 3

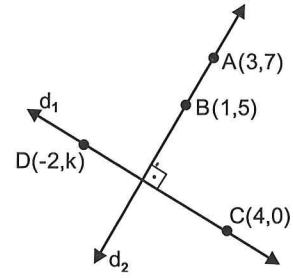
51.



$$\begin{aligned} A \in d \\ A(k,t) \\ k + t = ? \end{aligned}$$

- A) 7 B) 6 C) 5 D) 4 E) 3

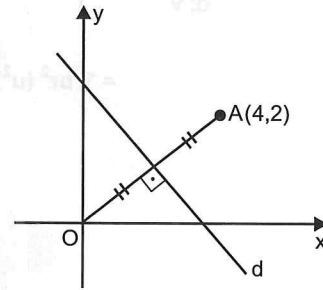
52.



$$\begin{aligned} D(-2,k) \\ k = ? \end{aligned}$$

- A) 9 B) 8 C) 7 D) 6 E) 5

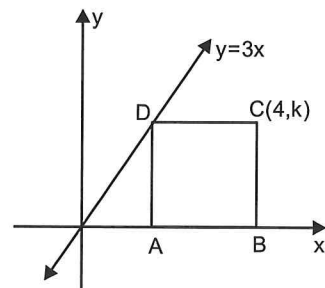
53.



$d = ?$

- A) $y = -2x + 5$ B) $y = -2x + 3$
 C) $y = -3x + 5$ D) $y = -3x + 4$
 E) $y = -x + 5$

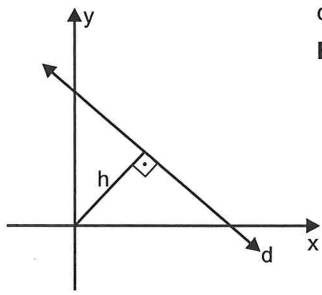
54.



$$\begin{aligned} (ABCD) \text{ kare} \\ (ABCD \text{ is a square}) \\ C(4,k) \\ k = ? \end{aligned}$$

- A) 2 B) 2,5 C) 3 D) 3,5 E) 4

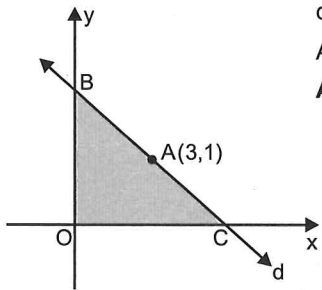
55.



$d: 3x + 4y = 60$
 $h = ?$

- A) 8 B) 9 C) 10 D) 12 E) 15

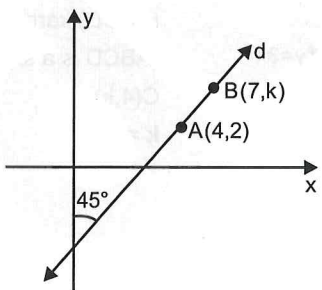
56.



$d: y = -x + n$
 $A \in d$
 $A(BOC) = ? \text{ br}^2 \text{ (u}^2\text{)}$

- A) 6 B) 7 C) 8 D) 9 E) 10

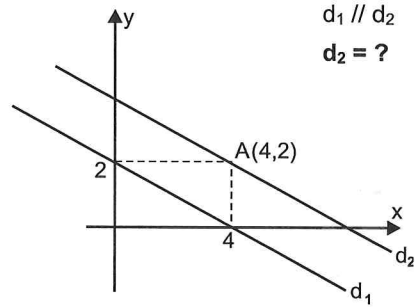
57.



$\{A, B\} \in d$
 $k = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

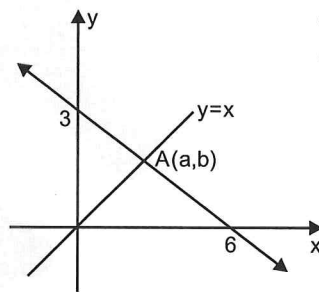
58.



$d_1 \parallel d_2$
 $d_2 = ?$

- A) $x + 2y = 4$ B) $x + 2y = 8$
 C) $x - 2y = 4$ D) $x - 2y = 8$
 E) $x + 2y = 6$

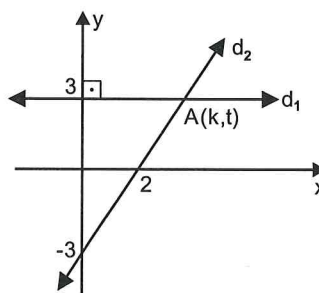
59.



$A(a,b)$
 $a + b = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

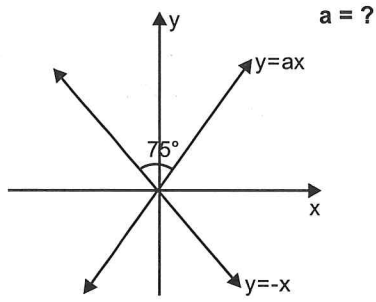
60.



$d_1 \cap d_2 = \{A\}$
 $A(k,t)$
 $k + t = ?$

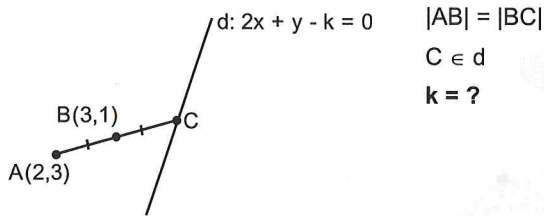
- A) 4 B) 5 C) 6 D) 7 E) 8

61.



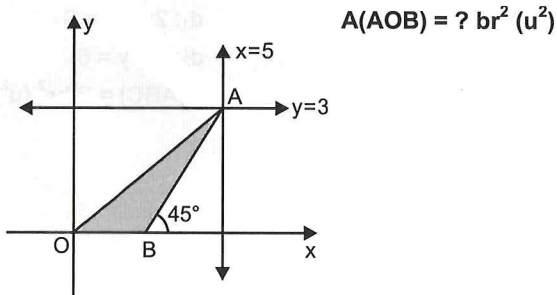
- A) $\sqrt{3}$ B) $\sqrt{2}$ C) $\sqrt{6}$ D) $-\sqrt{2}$ E) $-\sqrt{3}$

62.



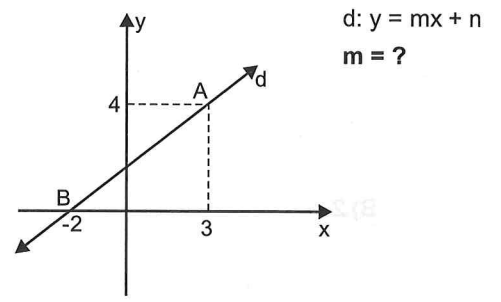
- A) -7 B) -5 C) -3 D) 5 E) 7

63.



- A) 2 B) 3 C) 4 D) 5 E) 6

64.



- A) $\frac{2}{5}$ B) $\frac{3}{5}$ C) $\frac{4}{5}$ D) 1 E) $\frac{1}{2}$

65. $d: 2x - 3y + k = 0$

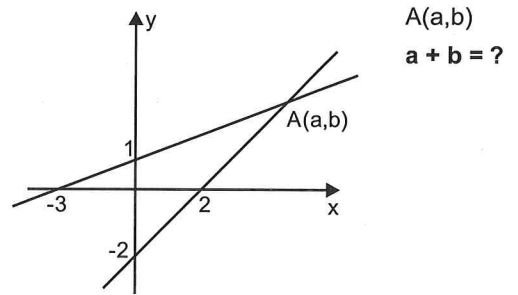
$A(-3, 2)$

$A \in d$

$k = ?$

- A) 8 B) 9 C) 10 D) 11 E) 12

66.



- A) 4 B) 5 C) 6 D) 7 E) 8

67.

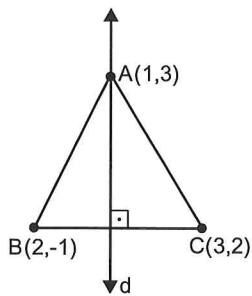
x	2	4
y	5	7

$\Rightarrow y = ax + b$

$a + b = ?$

- A) 4 B) 2 C) 1 D) -1 E) -2

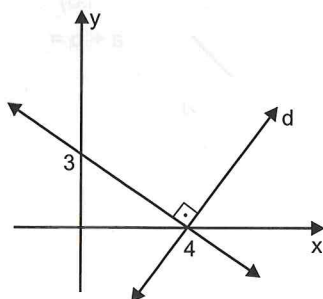
68.



$d = ?$

- A) $x + 3y = 10$ B) $x + 3y = 5$
 C) $2x + 3y = 5$ D) $2x + 3y = 10$
 E) $x + y = 10$

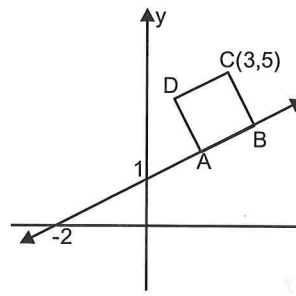
69.



$a \in \mathbb{Z}^+$
 $d: ax + by + c = 0$
 $(a + b + c)_{\min} = ?$

- A) 18 B) 17 C) 16 D) 15 E) 14

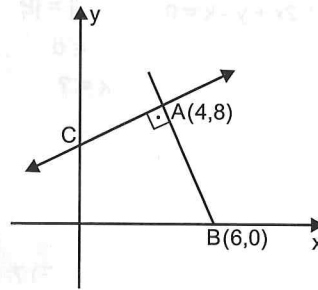
70.



(ABCD) kare
 (ABCD is a square)
 $A(ABCD) = ? br^2 (u^2)$

- A) 3 B) 4 C) 5 D) 6 E) 7

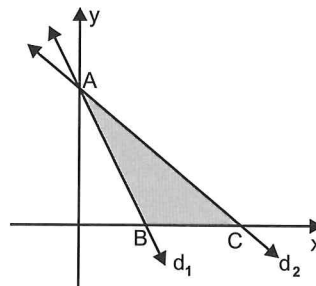
71.



$C(0,k)$
 $k = ?$

- A) 6 B) 7 C) 4 D) 5 E) 3

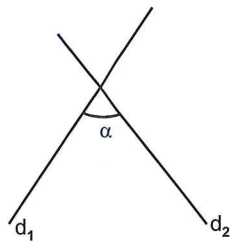
72.



$d_1: 2x + y = 6$
 $d_2: x + y = 6$
 $A(ABC) = ? br^2 (u^2)$

- A) 4 B) 6 C) 7 D) 8 E) 9

73.



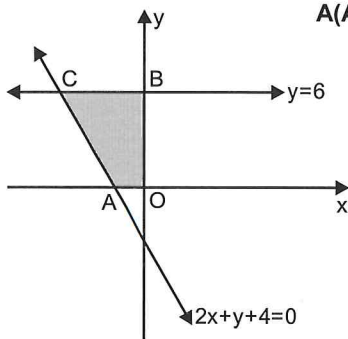
$$d_1: y = \sqrt{3}x + 4$$

$$d_2: y = -x + 3$$

$$\alpha = ?$$

- A) 30 B) 45 C) 60 D) 75 E) 90

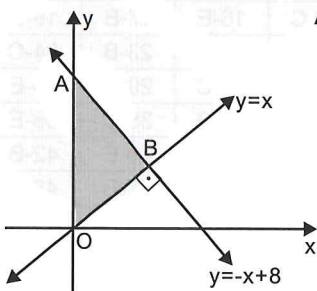
74.



$$A(\text{AOBC}) = ? \text{ br}^2 (\text{u}^2)$$

- A) 18 B) 19 C) 21 D) 24 E) 28

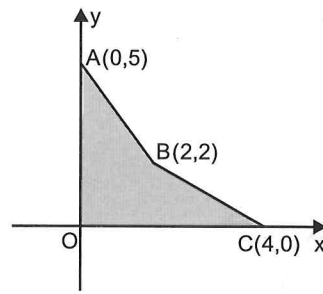
75.



$$A(\text{AOB}) = ? \text{ br}^2 (\text{u}^2)$$

- A) 12 B) 16 C) 18 D) 20 E) 24

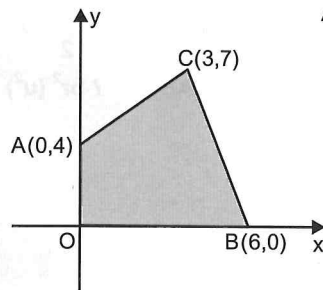
76.



$$A(\text{OCBA}) = ? \text{ br}^2 (\text{u}^2)$$

- A) 11 B) 10 C) 9 D) 8 E) 7

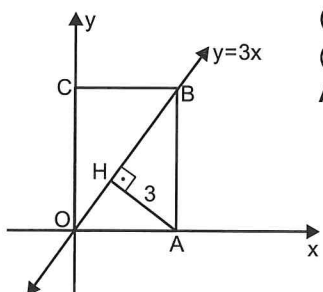
77.



$$A(\text{AOBC}) = ? \text{ br}^2 (\text{u}^2)$$

- A) 36 B) 35 C) 31 D) 29 E) 27

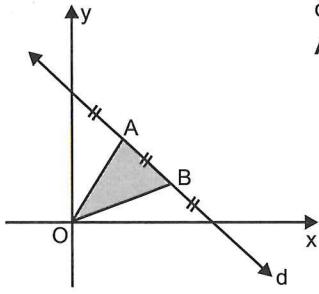
78.



(ABCO) dikdörtgen
(ABCO is a rectangle)
 $A(\text{ABCO}) = ? \text{ br}^2 (\text{u}^2)$

- A) 30 B) 27 C) 24 D) 21 E) 18

79.

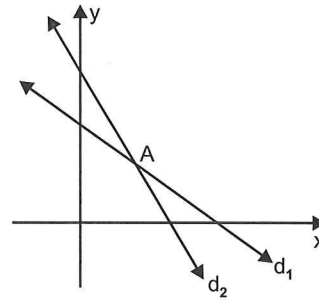


$$d: x + 2y = 6$$

$$A(ABO) = ? \text{ br}^2 (\text{u}^2)$$

- A) 3 B) 4 C) 5 D) 6 E) 7

82.



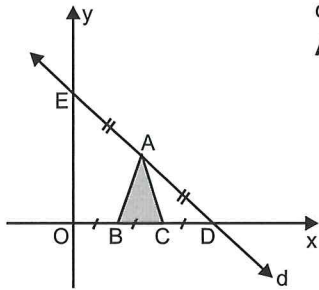
$$d_1: \frac{x}{6} + \frac{y}{3} = 1$$

$$d_2: \frac{x}{3} + \frac{y}{6} = 1$$

$$A(?,?)$$

- A) (2,1) B) (3,2) C) (2,2)
D) (2,3) E) (3,3)

80.

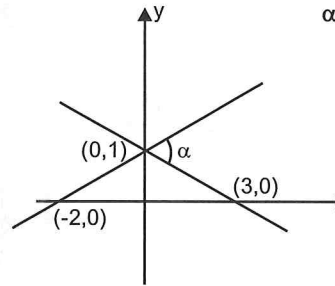


$$d: 2x + 3y = 12$$

$$A(ABC) = ? \text{ br}^2 (\text{u}^2)$$

- A) 2 B) 3 C) 4 D) 5 E) 6

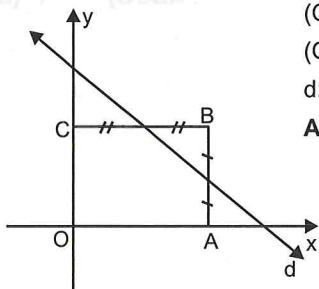
83.



$$\alpha = ?$$

- A) 15 B) 30 C) 45 D) 60 E) 75

81.



(OABC) dikdörtgen
(OABC is a rectangle)

$$d: x + 2y = 12$$

$$A(OABC) = ? \text{ br}^2 (\text{u}^2)$$

- A) 18 B) 24 C) 28 D) 30 E) 32

CEVAPLAR / ANSWERS

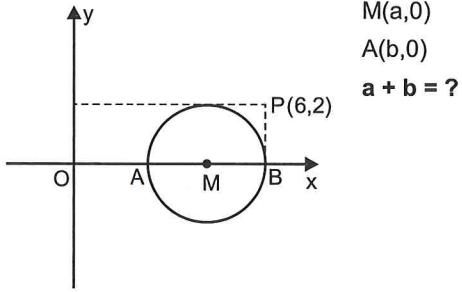
1-A	2-E	3-C	4-C	5-D	6-B
7-B	8-B	9-C	10-A	11-D	12-E
13-A	14-C	15-C	16-E	17-B	18-B
19-D	20-E	21-E	22-A	23-B	24-C
25-A	26-C	27-B	28-C	29-D	30-E
31-D	32-D	33-A	34-B	35-C	36-E
37-C	38-D	39-B	40-A	41-E	42-B
43-B	44-D	45-A	46-D	47-B	48-E
49-B	50-A	51-C	52-D	53-A	54-C
55-D	56-C	57-B	58-B	59-C	60-D
61-A	62-E	63-B	64-C	65-E	66-D
67-A	68-A	69-D	70-C	71-B	72-E
73-D	74-C	75-B	76-C	77-E	78-A
79-A	80-A	81-E	82-C	83-C	

ÜNİTE 4
UNIT 4

ÇEMBER ANALİTİĞİ
CIRCLE IN A ANALYTIC

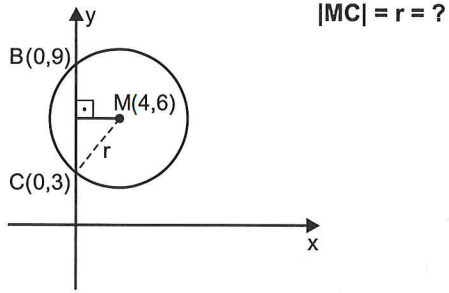
BÖLÜM 2
CHAPTER 2

1.



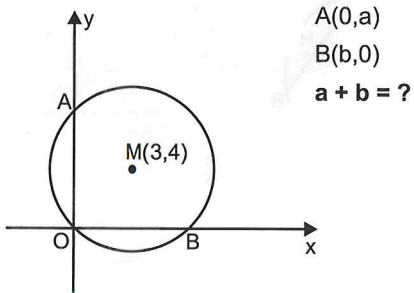
- A) 4 B) 5 C) 6 D) 7 E) 8

2.



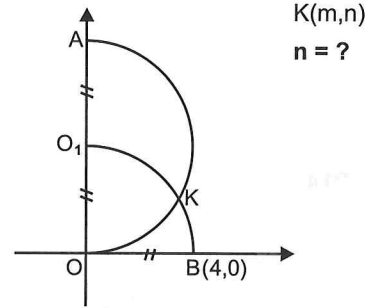
- A) 3,5 B) 4 C) 4,5 D) 5 E) 6

3.



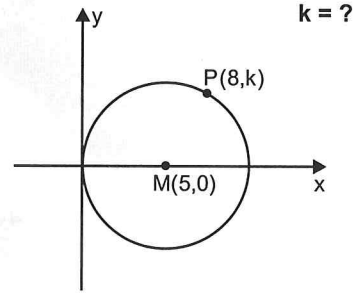
- A) 14 B) 13 C) 12 D) 11 E) 10

4.



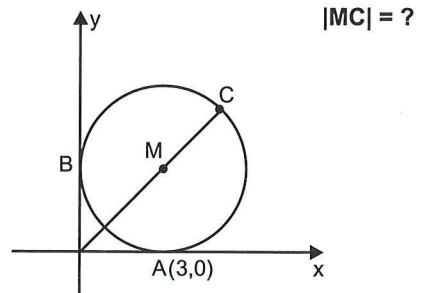
- A) 2 B) 3 C) $\sqrt{3}$ D) $\sqrt{6}$ E) $2\sqrt{3}$

5.



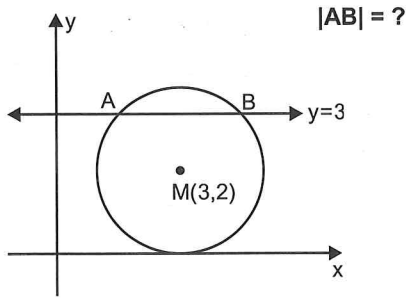
- A) 2 B) 3 C) 4 D) 5 E) 6

6.



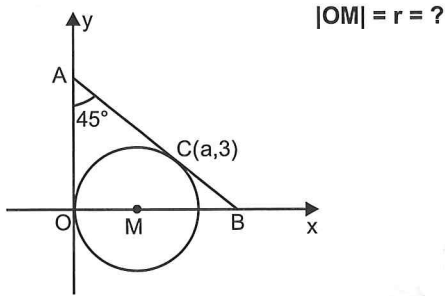
- A) 2 B) 3 C) $\sqrt{2}$ D) $2\sqrt{2}$ E) 4

7.



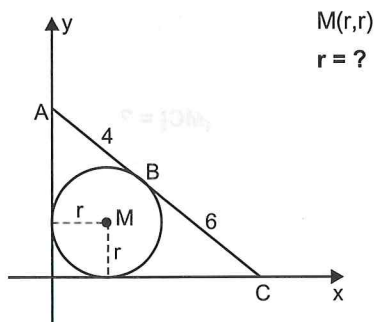
- A) $2\sqrt{3}$ B) 4 C) 5 D) $2\sqrt{5}$ E) $\sqrt{10}$

8.



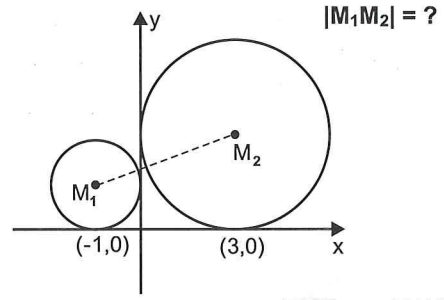
- A) $2\sqrt{2}$ B) 3 C) $3\sqrt{2}$ D) 4 E) $4\sqrt{2}$

9.



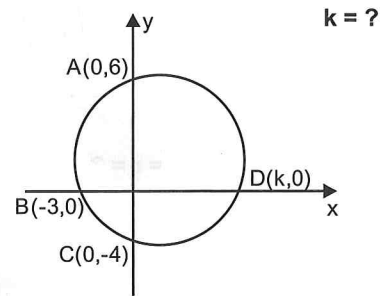
- A) 1 B) 2 C) $\sqrt{2}$ D) $2\sqrt{2}$ E) 3

10.



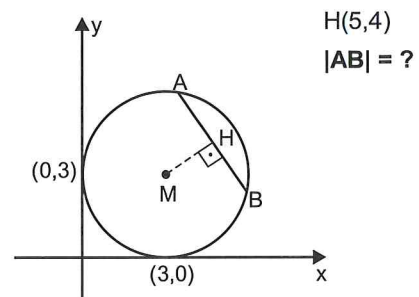
- A) 5 B) 4 C) $2\sqrt{5}$ D) $3\sqrt{5}$ E) $2\sqrt{7}$

11.



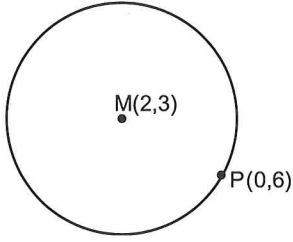
- A) 10 B) 8 C) 7 D) 6 E) 5

12.



- A) 5 B) $2\sqrt{5}$ C) $3\sqrt{2}$ D) $\sqrt{17}$ E) 4

13.

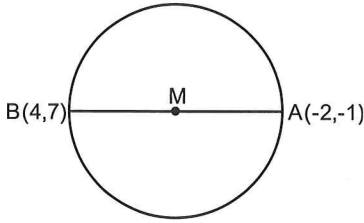


Şekildeki çemberin denklemini nedir?

(What is the equation of the circle in the figure?)

- A) $(x-2)^2 + (y-3)^2 = 13$ B) $(x+2)^2 + (y+3)^2 = 13$
 C) $(x-2)^2 + (y-3)^2 = 10$ D) $(x+2)^2 + (y+3)^2 = 12$
 E) $x^2 + y^2 = 13$

14.

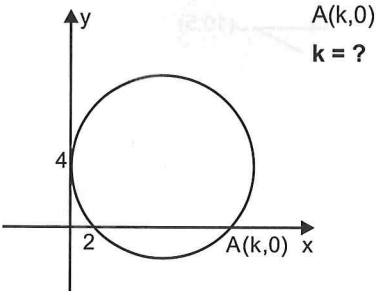


Şekildeki çemberin denklemini nedir?

(What is the equation of the circle in the figure?)

- A) $(x-1)^2 + (y-3)^2 = 25$ B) $(x+1)^2 + (y-3)^2 = 25$
 C) $(x+1)^2 + (y+3)^2 = 25$ D) $(x-1)^2 + (y-3)^2 = 50$
 E) $(x+1)^2 + (y-3)^2 = 50$

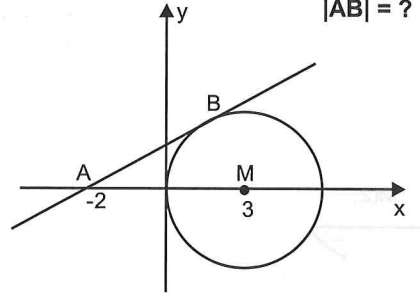
15.



$A(k,0)$
 $k = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

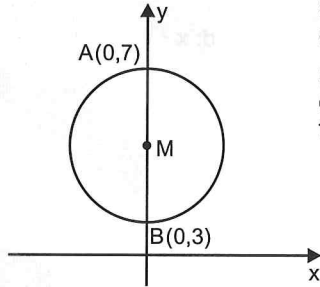
16.



$|AB| = ?$

- A) 2 B) 3 C) 4 D) 5 E) $2\sqrt{5}$

17.

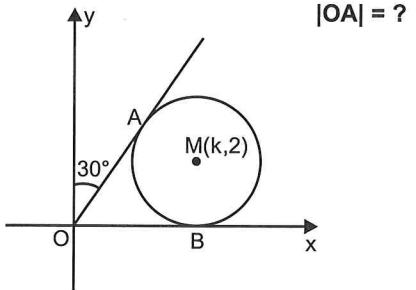


Şekildeki çemberin denklemini nedir?

(What is the equation of the circle in the figure?)

- A) $x^2 + (y-5)^2 = 7$ B) $x^2 + y^2 = 8$
 C) $x^2 + (y-5)^2 = 4$ D) $(x-5)^2 + y^2 = 4$
 E) $(x-5)^2 + y^2 = 8$

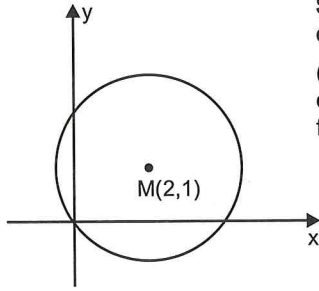
18.



$|OA| = ?$

- A) 4 B) $2\sqrt{3}$ C) $\sqrt{10}$ D) $2\sqrt{2}$ E) $\sqrt{6}$

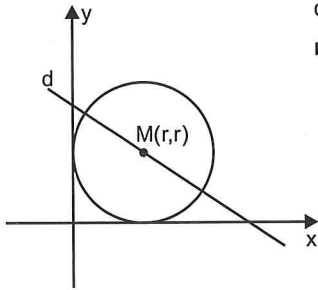
19.



Şekildeki çemberin denklemini nedir?
(What is the equation of the circle in the figure?)

- A) $(x-2)^2+(y-1)^2=5$ B) $(x-2)^2+(y-1)^2=4$
 C) $(x-2)^2+(y-1)^2=3$ D) $(x-2)^2+(y-1)^2=2$
 E) $(x-2)^2+(y-1)^2=1$

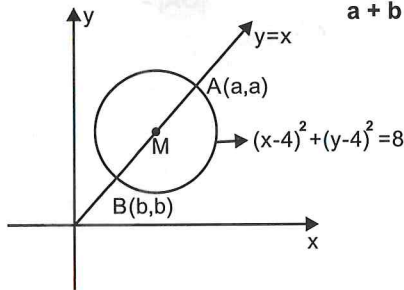
20.



d: $x + 2y = 6$
 $r = ?$

- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

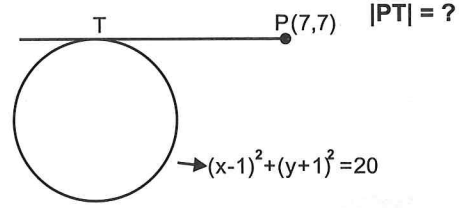
21.



$a + b = ?$

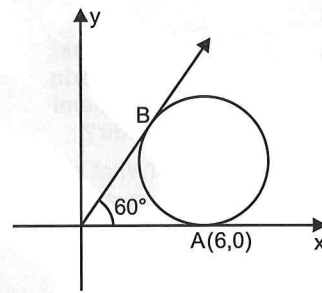
- A) 9 B) 8 C) 7 D) 6 E) 5

22.



- A) 9 B) $4\sqrt{5}$ C) $6\sqrt{2}$ D) 8 E) 7

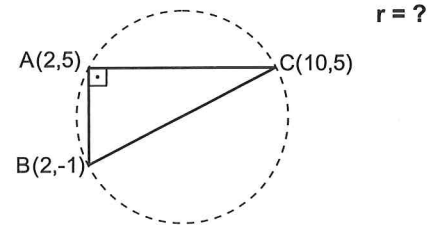
23.



B(a,b)
 $a.b = ?$

- A) 12 B) 9 C) 6 D) $9\sqrt{3}$ E) $6\sqrt{3}$

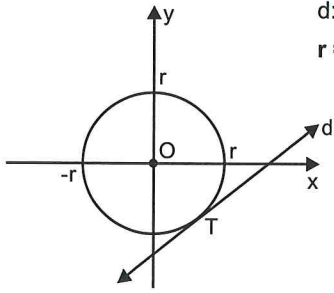
24.



$r = ?$

- A) 4 B) 5 C) 6 D) $2\sqrt{5}$ E) $4\sqrt{2}$

25.

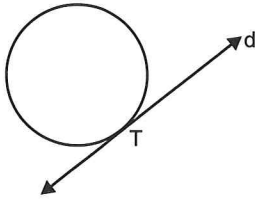


$$d: 3x - 4y = 12$$

$$r = ?$$

- A) 1,8 B) 2 C) 2,4 D) 2,5 E) 2,8

26.



$$Ç: (x-2)^2 + (y+1)^2 = 13$$

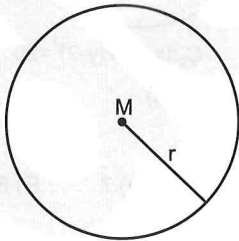
$$d: 2x + 3y + k = 0$$

$$k \in \mathbb{Z}^+$$

$$k = ?$$

- A) 12 B) 11 C) 10 D) 9 E) 8

27.

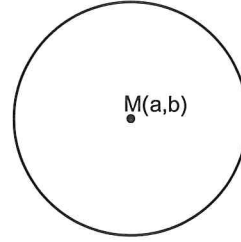


$$Ç: x^2 + y^2 - 4x + 6y - 3 = 0$$

$$r = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

28.

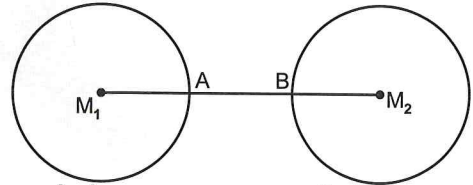


$$Ç: 2x^2 + 2y^2 + 12x - 16y + 21 = 0$$

M noktası çemberin merkezidir.
(M is center of the circle)
 $m(a,b) \Rightarrow a + b = ?$

- A) -2 B) -1 C) 1 D) 2 E) 3

29.



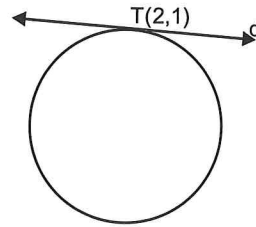
$$Ç_1: x^2 + y^2 - 2x + 4y - 4 = 0$$

$$Ç_2: x^2 + y^2 + 10x - 12y + 36 = 0$$

$$|AB| = ?$$

- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

30.

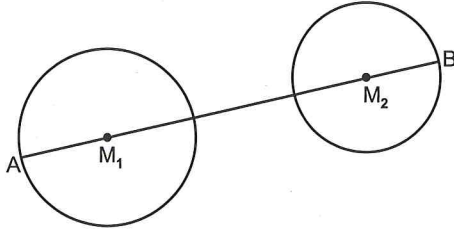


$$Ç: x^2 + y^2 - 2x + 6y - 7 = 0$$

$$d = ?$$

- A) $x + 2y = 6$ B) $x + y = 3$ C) $2x + y = 6$
D) $x + 4y = 6$ E) $4x + y = 6$

31.



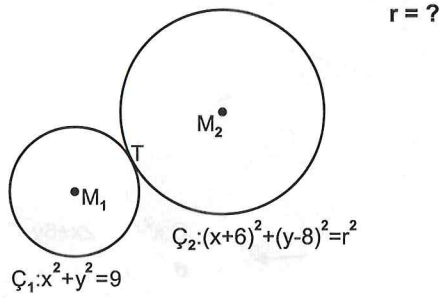
$$C_1: (x-2)^2 + (y+1)^2 = 25$$

$$C_2: (x+4)^2 + (y-7)^2 = 9$$

$|AB| = ?$

- A) 14 B) 15 C) 16 D) 17 E) 18

32.

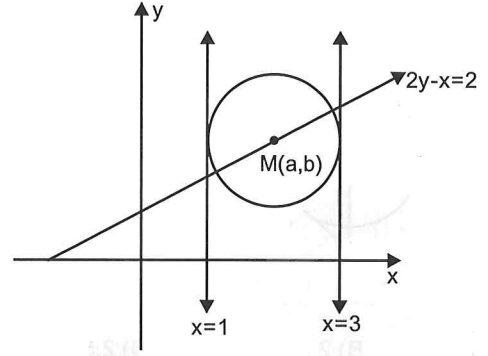


$$C_1: x^2 + y^2 = 9$$

$$C_2: (x+6)^2 + (y-8)^2 = r^2$$

- A) 4 B) 5 C) 6 D) 7 E) 8

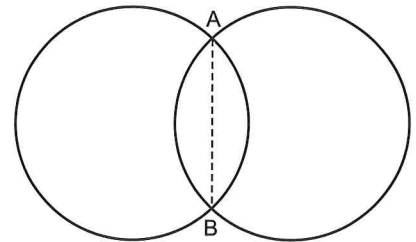
33.



$M(a,b) \Rightarrow a + b = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

34.



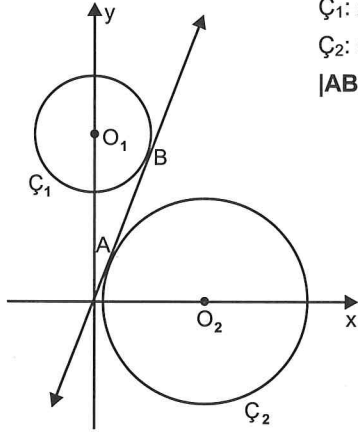
$$C_1: (x-1)^2 + (y-2)^2 = 25$$

$$C_2: (x-6)^2 + (y-2)^2 = 20$$

$|AB| = ?$ br (u)

- A) 4 B) 5 C) 6 D) 7 E) 8

35.



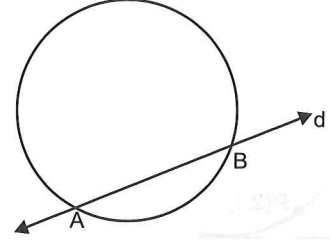
$$C_1: x^2 + (y-8)^2 = 9$$

$$C_2: (x-6)^2 + y^2 = 25$$

$$|AB| = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

37.



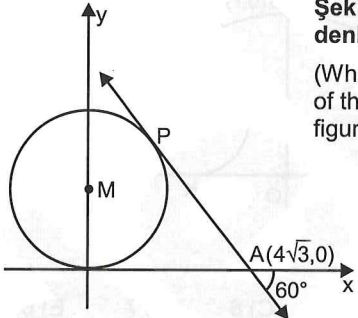
$$C: (x-2)^2 + (y-1)^2 = 25$$

$$d: 3x + 4y + 5 = 0$$

$$|AB| = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

36.

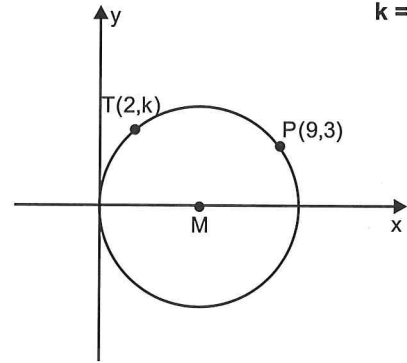


Şekildeki çemberin denklemini nedir?

(What is the equation of the circle in the figure?)

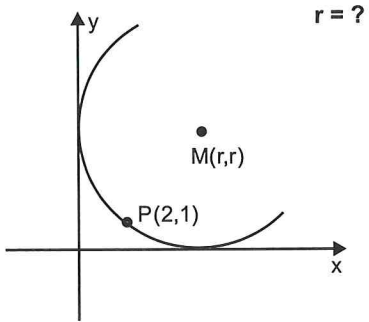
- A) $x^2 + (y-4)^2 = 8$ B) $x^2 + y^2 = 16$
 C) $(x-4)^2 + y^2 = 16$ D) $x^2 + (y-2)^2 = 4$
 E) $x^2 + (y-4)^2 = 16$

38.


 $k = ?$

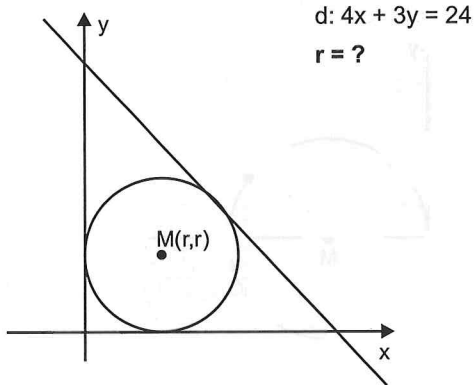
- A) 3 B) 4 C) 5 D) $2\sqrt{5}$ E) $\sqrt{10}$

39.



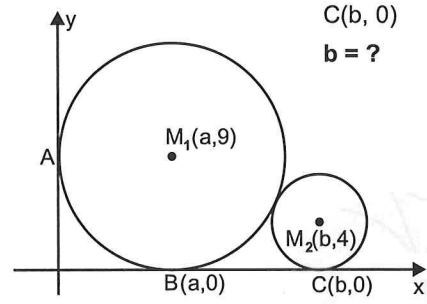
- A) 5 B) 6 C) 7 D) 8 E) 10

40.



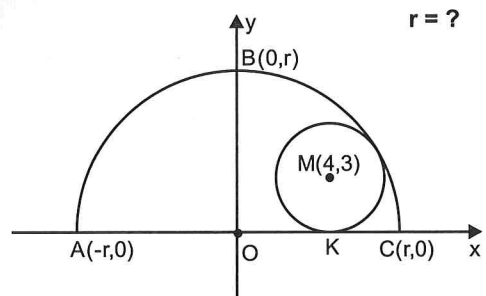
- A) $\sqrt{2}$ B) 2 C) $2\sqrt{2}$ D) 3 E) 4

41.



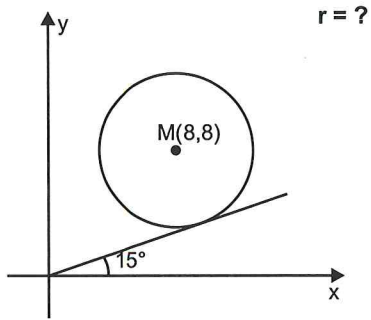
- A) 18 B) 19 C) 20 D) 21 E) 22

42.



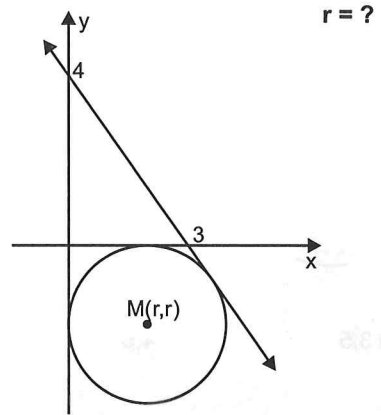
- A) 10 B) 9 C) 8 D) 7 E) 6

43.



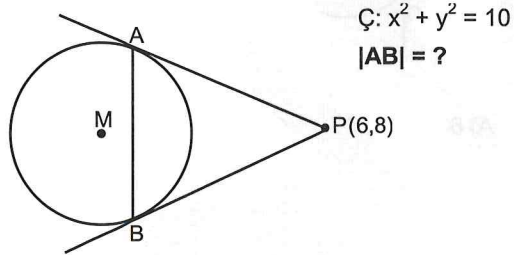
- A) $2\sqrt{2}$ B) 4 C) $4\sqrt{2}$ D) 6 E) $4\sqrt{3}$

45.



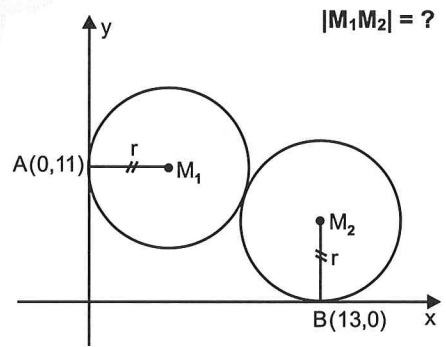
- A) 1 B) 1,5 C) 2 D) 2,5 E) 3

44.



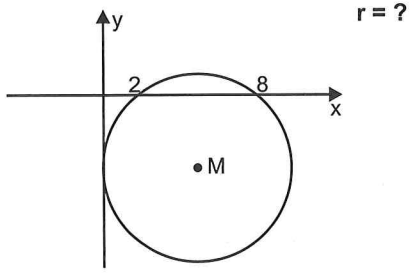
- A) 3 B) 4 C) 5 D) 6 E) 7

46.



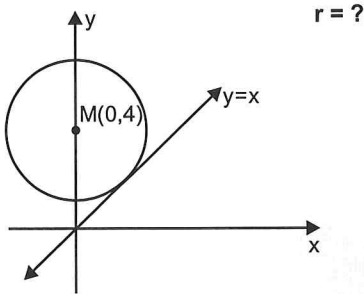
- A) 5 B) 8 C) 10 D) 12 E) 13

47.



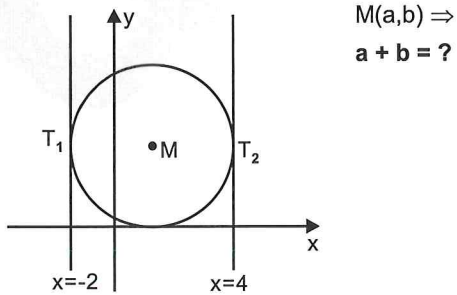
- A) 3 B) 3,5 C) 4 D) 4,5 E) 5

48.



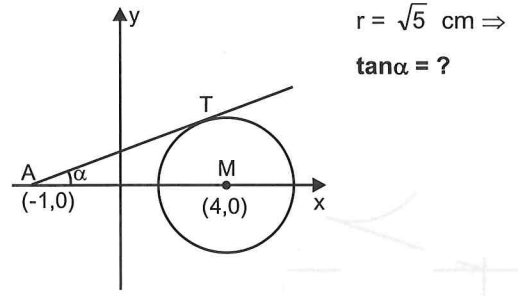
- A) $\sqrt{2}$ B) $3\sqrt{2}$ C) 2 D) 3 E) $2\sqrt{2}$

49.



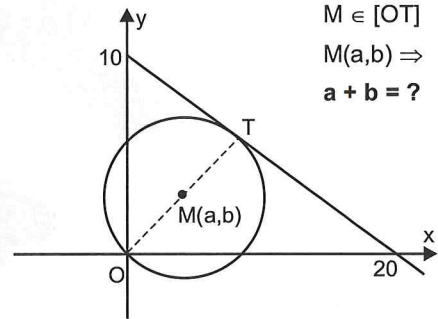
- A) 7 B) 6 C) 5 D) 4 E) 3

50.



- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{3}{4}$ D) $\frac{1}{3}$ E) $\frac{1}{4}$

51.



- A) 6 B) 8 C) 9 D) 10 E) 11

CEVAPLAR / ANSWERS

1-C	2-D	3-A	4-A	5-C	6-B
7-A	8-C	9-B	10-C	11-B	12-E
13-A	14-A	15-E	16-C	17-C	18-B
19-A	20-C	21-B	22-B	23-D	24-B
25-C	26-A	27-B	28-C	29-C	30-D
31-E	32-D	33-A	34-E	35-D	36-E
37-E	38-B	39-A	40-B	41-D	42-C
43-C	44-D	45-C	46-C	47-E	48-E
49-D	50-A	51-A			

ÜNİTE
UNIT 4
VEKTÖRLER
VECTORS
BÖLÜM
CHAPTER 3

1. $\vec{A} = (4, a)$, $\vec{B} = (b, 7)$, $\vec{A} = \vec{B}$
 $a + b = ?$

- A) 10 B) 11 C) 12 D) 13 E) 14

2. $\vec{A} = (3, 1)$, $\vec{B} = (-1, 7)$

$$2\vec{A} + \vec{B} = ?$$

- A) (4,9) B) (5,8) C) (5,9)
 D) (6,8) E) (6,9)

3. $\vec{A} = (3, 4)$, $\vec{B} = (2, 1)$

$$|\vec{A}| \cdot \vec{B} = ?$$

- A) (5,15) B) (10,15) C) (15,5)
 D) (10,5) E) (5,10)

4. $\vec{A} = (3, 2)$, $\vec{B} = (-1, 2)$, $\vec{C} = (4, -3)$

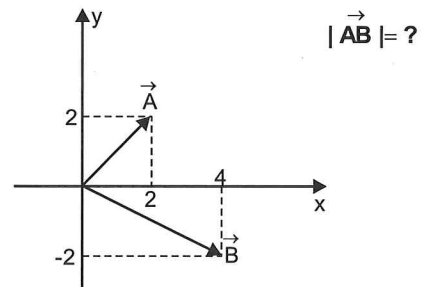
$$\vec{AB} + 2\vec{C} = ?$$

- A) (4,-6) B) (2,3) C) (-4,6)
 D) (2,-3) E) (5,7)

5. $\vec{A} = (2^x, 2^y - 1)$, $\vec{B} = (4, 7)$, $\vec{A} = \vec{B} \Rightarrow$
 $x + y = ?$

- A) 3 B) 4 C) 5 D) 6 E) 7

6.



- A) $2\sqrt{3}$ B) 4 C) 5 D) 6 E) $2\sqrt{5}$

7. $\vec{A} = (3, 6)$, $\vec{B} = (-1, k)$, $\vec{A} // \vec{B} \Rightarrow$
 $k = ?$

- A) 2 B) 1 C) -1 D) -2 E) -3

8. $\vec{A} = (3, 6)$, $\vec{B} = (-4, 2)$, $\vec{C} = (-1, 1)$
 $\langle \vec{AB}, \vec{C} \rangle = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

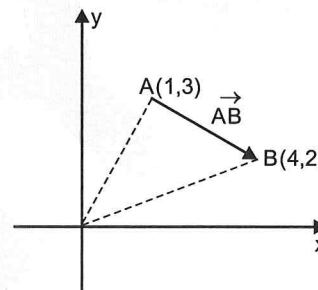
9. $\vec{A} = (7, 0)$, $\vec{B} = (4, 2)$, $\vec{C} = (k, 6)$
 $\vec{AB} \perp \vec{C} \Rightarrow k = ?$

- A) 4 B) 3 C) 2 D) 1 E) -1

10. $A(3, 0)$, $B(-1, 2)$, $C(4, a)$, $D(a, 3)$,
 $\vec{AB} // \vec{CD} \Rightarrow a = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

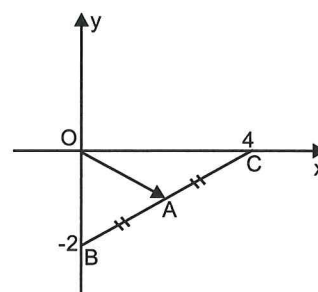
11.



$\vec{AB} = (x, y)$
 $x + y = ?$

- A) 4 B) 3 C) 2 D) 1 E) 0

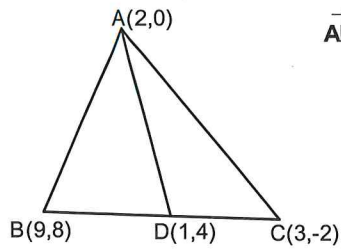
12.



$A \in [BC]$
 $\vec{OA} = (x, y)$
 $x - y = ?$

- A) -1 B) 1 C) 2 D) 3 E) 4

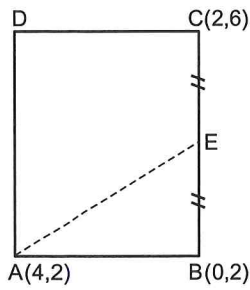
13.



$$\vec{AB} + \vec{BD} + \vec{AC} = ?$$

- A) (2,0) B) (0,2) C) (3,1)
 D) (4,2) E) (-2,0)

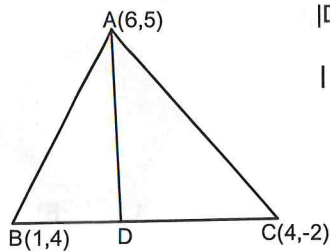
14.



(ABCD) dikdörtgen
 (ABCD is a rectangle)
 $\vec{AD} + \vec{DC} + \vec{CE} = (x, y)$
 $x + y = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

15.



$$|DC| = 2 \cdot |BD|$$

$$|\vec{AD}| = ?$$

- A) 4 B) $2\sqrt{5}$ C) 5 D) $4\sqrt{2}$ E) 6

16. $\vec{A} = (5, 8)$, $\vec{B} = (-2, 1)$, $\vec{C} = (3, 2)$

$$\vec{A} = k \cdot \vec{B} + t \cdot \vec{C}$$

$$k + t = ?$$

- A) 7 B) 6 C) 5 D) 4 E) 1

17. $|\vec{A}| = 3$, $|\vec{B}| = 4$, $\vec{A} \perp \vec{B}$

$$|\vec{A} + \vec{B}| = ? \text{ br (unit)}$$

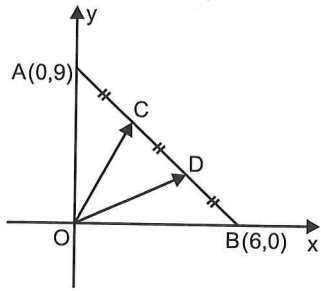
- A) 7 B) 6 C) 5 D) 4 E) 1

18. $\vec{AB} = (3, 4)$, $\vec{CA} = (2, 0)$

$$\vec{CB} = (x, y) = ?$$

- A) (5,4) B) (4,5) C) (5,3)
 D) (3,4) E) (5,5)

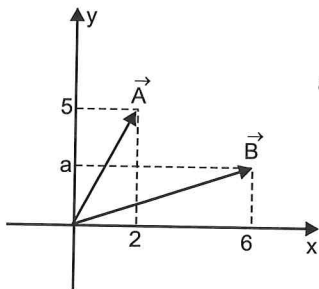
19.



$$\vec{OC} + \vec{OD} = (x, y) = ?$$

- A) (6,9) B) (7,2) C) (9,6)
 D) (6,8) E) (4,9)

20.

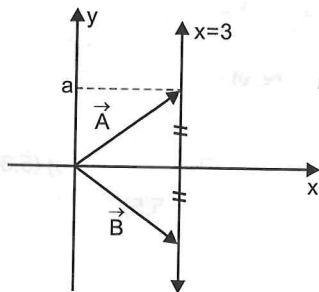


$$\langle \vec{A}, \vec{B} \rangle = 22$$

$$a = ?$$

- A) $\frac{1}{2}$ B) 1 C) $\frac{3}{2}$ D) 2 E) $\frac{5}{2}$

21.



$$\langle \vec{A}, \vec{B} \rangle = 5$$

$$a = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

22. $\vec{A} = (3, 1)$, $\vec{B} = (m, n)$, $\vec{C} = (4, 4)$

$$\vec{BC} + \vec{AB} = (x, y) = ?$$

- A) (2,3) B) (1,2) C) (1,4)
 D) (2,4) E) (1,3)

23. $\vec{A} + 2\vec{B} = (4, 7)$

$$\vec{B} + 2\vec{A} = (2, 2)$$

$$\vec{A} + \vec{B} = (x, y) = ?$$

- A) (1,3) B) (2,3) C) (3,3)
 D) (1,4) E) (2,4)

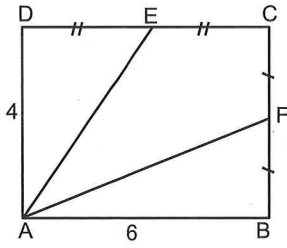
24. $\vec{A} = -3e_1 + 2e_2$

$$\vec{B} = e_1 - e_2$$

$$|\vec{AB}| = ? \text{ br (unit)}$$

- A) 7 B) 6 C) 5 D) 4 E) 3

25.

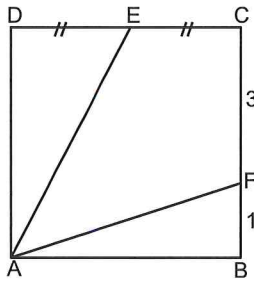


(ABCD) dikdörtgen
(ABCD is a rectangle)

$\langle \vec{AF}, \vec{AE} \rangle = ?$

- A) 32 B) 30 C) 28 D) 26 E) 24

26.

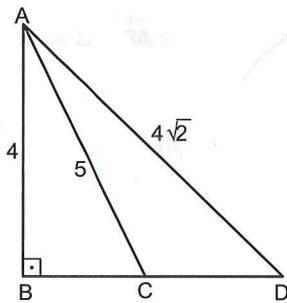


(ABCD) kare
(ABCD is a square)

$\langle \vec{AE}, \vec{AF} \rangle = ?$

- A) 16 B) 12 C) 10 D) 8 E) 6

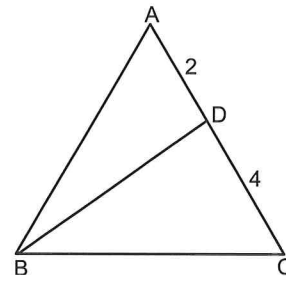
27.



$\langle \vec{BC}, \vec{BD} \rangle = ?$

- A) 24 B) 22 C) 20 D) 16 E) 12

28.

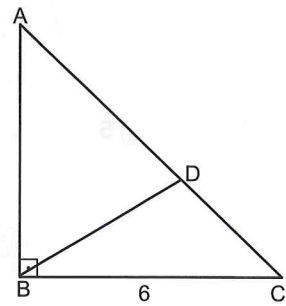


(ABC) eşkenar üçgen
(ABC is an equilateral triangle)

$\langle \vec{BD}, \vec{BC} \rangle = ?$

- A) 24 B) 22 C) 20 D) 18 E) 22

29.



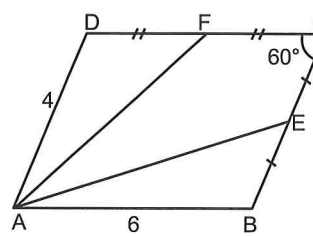
(ABC) ikizkenar üçgen
(ABC is an isosceles triangle)

$|AD| = 2 \cdot |DC|$

$\langle \vec{BA}, \vec{BD} \rangle = ?$

- A) 8 B) 10 C) 12 D) 16 E) 18

30.



(ABCD) paralelkenar
(ABCD is a parallelogram)

$\langle \vec{AF}, \vec{AE} \rangle = ?$

- A) 26 B) 37 C) 39 D) 40 E) 41

31. $\vec{A} = (2, k), \vec{B} = (3, 2), \vec{C} = (k, 8)$

$\vec{AB} \parallel \vec{BC} \Rightarrow \Sigma k = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

32. $\vec{A} = (-1, 3), \vec{B} = (x, 2y), \vec{C} = (2x-1, 5)$

$\vec{AB} = \vec{C} \Rightarrow x + y = ?$

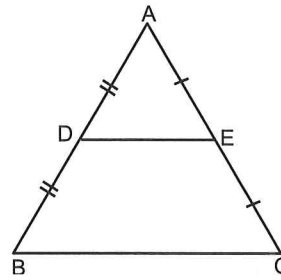
- A) 2 B) 3 C) 4 D) 5 E) 6

33. $\vec{A} = (3, m), \vec{B} = (-2, 2), \vec{C} = (m, n)$

$\vec{A} \perp \vec{B}, \vec{B} \parallel \vec{C} \Rightarrow$
 $n = ?$

- A) -3 B) -2 C) 1 D) 2 E) 3

34.



$D(4,1)$

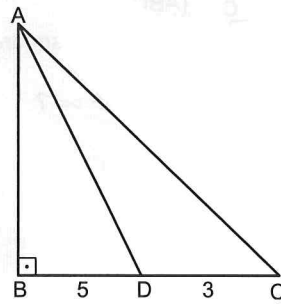
$E(5,3)$

$\vec{BC} = (k,4)$

$k = ?$

- A) -2 B) -1 C) 0 D) 1 E) 2

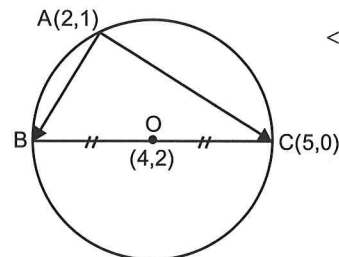
35.



$\angle \vec{AD}, \vec{BC} = ?$

- A) 25 B) 30 C) 35 D) 40 E) 50

36.



$\angle \vec{AB}, \vec{AC} = ?$

- A) -2 B) -1 C) 0 D) 1 E) 2

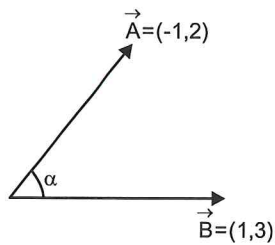
37. $\vec{A} = (4, -3)$, $\vec{B} = (k+2, -5)$, $\vec{C} = (6, k)$

$\vec{B} \perp (\vec{A} + \vec{C})$

$k = ?$

- A) -7 B) -5 C) -3 D) 2 E) 4

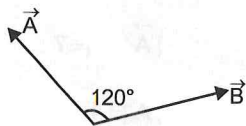
38.



$\alpha = ?$

- A) 15 B) 30 C) 45 D) 60 E) 75

39.



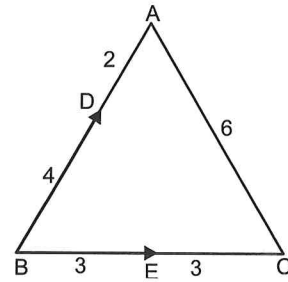
$|\vec{A}| = 2br (u)$

$|\vec{B}| = 3br (u)$

$(\vec{A} - \vec{B}) \cdot \vec{B} = ?$

- A) -2 B) 1 C) 3 D) 6 E) 7

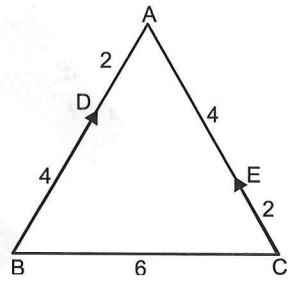
40.



$\langle \vec{BD}, \vec{BE} \rangle = ?$

- A) 12 B) 10 C) 8 D) 6 E) 4

41.



$\langle \vec{BD}, \vec{CE} \rangle = ?$

- A) 3 B) 4 C) 5 D) 6 E) 8

42. $\vec{A} - \vec{B} = 2\mathbf{e}_1 + 4\mathbf{e}_2$

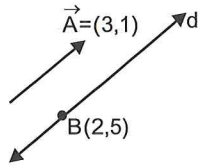
$\vec{B} - \vec{C} = k\mathbf{e}_1 - \mathbf{e}_2$

$\vec{AB} \perp \vec{BC}$

$k = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

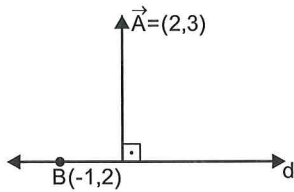
43.



$\vec{A} \parallel d$
 $B \in d$
 $d = ?$

- A) $2x - y = 12$ B) $3y - x = 13$
 C) $x + y = 4$ D) $2x + y = 11$
 E) $x - y = 2$

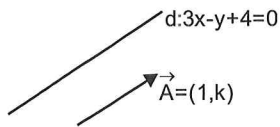
44.



$\vec{A} \perp d$
 $B \in d$
 $d = ?$

- A) $2x + 3y = 1$ B) $2x + 3y = 2$
 C) $2x + 3y = 3$ D) $2x + 3y = 5$
 E) $2x + 3y = 4$

45.



$d \parallel \vec{A}$
 $\vec{A} = (1, k)$
 $k = ?$

- A) 3 B) 2 C) 1 D) -1 E) -2

46. $|\vec{A} - \vec{B}| = 5$ br (u)

$|\vec{A}| = 2$ br (u)

$|\vec{B}| = 3$ br (u)

$\langle \vec{A}, \vec{B} \rangle = ?$

- A) -4 B) -6 C) 8 D) 4 E) 2

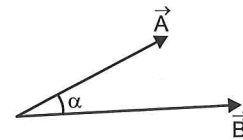
47. $|\vec{A} + \vec{B}| = 6$

$\langle \vec{A}, \vec{B} \rangle = 5$

$|\vec{A} - \vec{B}| = ?$

- A) 4 B) 3 C) 2 D) 1 E) 0

48.



$|\vec{A} + \vec{B}| = 7$

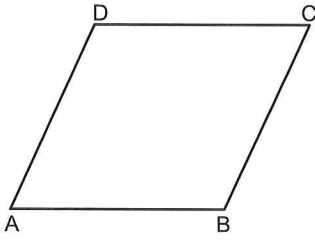
$|\vec{A}| = 4$

$|\vec{B}| = 5$

$\cos \alpha = ?$

- A) $\frac{4}{5}$ B) $\frac{3}{5}$ C) $\frac{2}{5}$ D) $\frac{1}{5}$ E) $\frac{1}{4}$

49.



(ABCD) paralelkenar
(ABCD is a parallelogram)

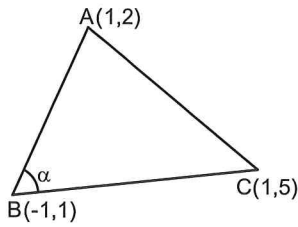
$$\vec{AD} = (2, 4)$$

$$\vec{AB} = (-2, 6)$$

$$A(ABCD) = ?$$

- A) 15 B) 20 C) 25 D) 30 E) 35

50.

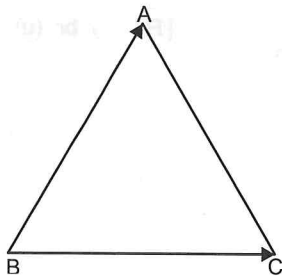


$$m(\hat{ABC}) = \alpha$$

$$\cos \alpha = ?$$

- A) $\frac{1}{3}$ B) $\frac{2}{5}$ C) $\frac{3}{5}$ D) $\frac{4}{5}$ E) $\frac{2}{3}$

51.



$$\vec{BA} = (1, 2)$$

$$\vec{BC} = (4, 2)$$

$$A(ABC) = ? \text{ br } (u^2)$$

- A) 3 B) 4 C) 5 D) 6 E) 9

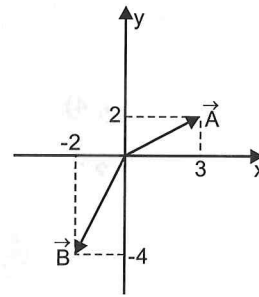
52. $\vec{A} + \vec{B} - \vec{C} = 0$

$$|\vec{C}| = 3 \text{ br } (u)$$

$$\vec{A} \cdot \vec{C} + \vec{B} \cdot \vec{C} = ?$$

- A) 1 B) 2 C) 4 D) 9 E) 16

53.

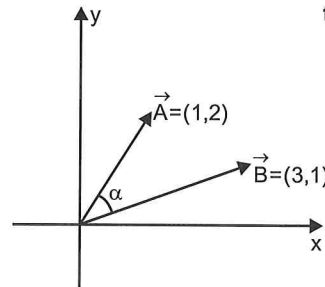


$$\vec{A} + \vec{B} = -\vec{C}$$

$$\vec{C} = (a, b) = ?$$

- A) (1, -2) B) (-1, 2) C) (1, 3)
D) (1, -3) E) (2, 3)

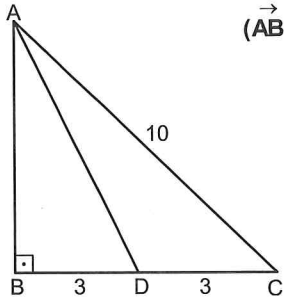
54.



$$\tan \alpha = ?$$

- A) 1,6 B) 1,5 C) 1 D) 0,8 E) 0,5

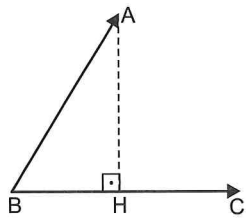
55.



$$(\vec{AB} + \vec{BD}) \cdot (\vec{AC} + \vec{CD}) = ?$$

- A) 60 B) 64 C) 70 D) 73 E) 80

56.



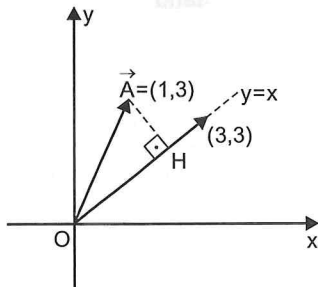
$$\vec{BA} = (6, 8)$$

$$\vec{BC} = (4, 4)$$

$$|\vec{BH}| = ? \text{ br (unit)}$$

- A) 4 B) 5 C) 7 D) $5\sqrt{2}$ E) $7\sqrt{2}$

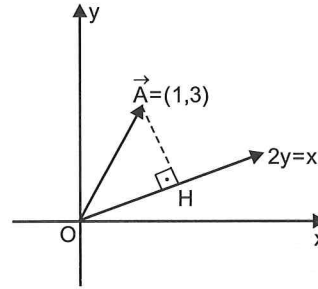
57.



$$|\vec{OH}| = ? \text{ br (u)}$$

- A) $2\sqrt{2}$ B) $3\sqrt{2}$ C) 3 D) 4 E) 5

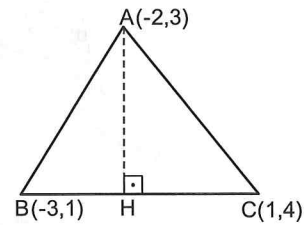
58.



$$|\vec{OH}| = ? \text{ br (u)}$$

- A) $\sqrt{5}$ B) $\sqrt{6}$ C) $\sqrt{10}$ D) $2\sqrt{2}$ E) $4\sqrt{2}$

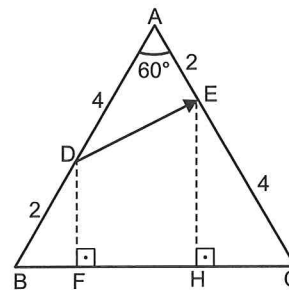
59.



$$|\vec{BH}| = ? \text{ br (u)}$$

- A) $2\sqrt{2}$ B) 2 C) $\sqrt{2}$ D) $\sqrt{6}$ E) 3

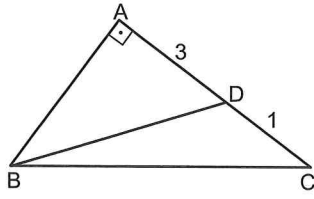
60.



$$|\vec{FH}| = ? \text{ br (u)}$$

- A) 4 B) 3,5 C) 3 D) 2,5 E) 2

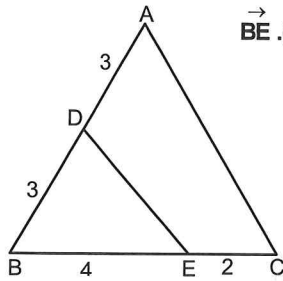
61.



$\vec{AC} \cdot (\vec{AB} + \vec{BD}) = ?$

- A) 6 B) 8 C) 10 D) 12 E) 16

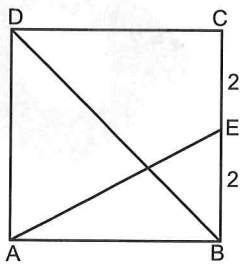
62.



$\vec{BE} \cdot (\vec{ED} + \vec{AC} - \vec{AD}) = ?$

- A) 4 B) 5 C) 6 D) 7 E) 8

63.

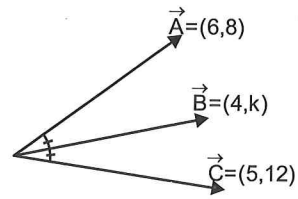


(ABCD) kare
(ABCD is a square)

$\langle \vec{AE}, \vec{BD} \rangle = ?$

- A) -8 B) -6 C) -4 D) 0 E) 8

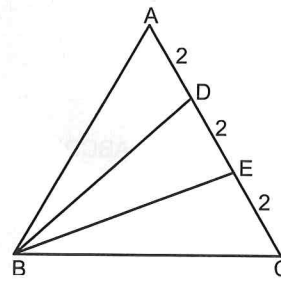
64.



$k = ?$

- A) 5 B) 6 C) 7 D) 8 E) 9

65.



(ABC) eşkenar üçgen
(ABC is an equilateral triangle)

$\langle \vec{BD}, \vec{BE} \rangle = ?$

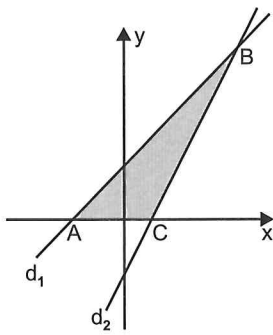
- A) 24 B) 26 C) 28 D) 30 E) 32

CEVAPLAR / ANSWERS

1-B	2-C	3-D	4-A	5-C	6-E
7-D	8-E	9-A	10-B	11-C	12-D
13-B	14-A	15-C	16-C	17-C	18-A
19-A	20-D	21-B	22-E	23-B	24-C
25-D	26-B	27-E	28-A	29-C	30-E
31-D	32-E	33-A	34-E	35-D	36-C
37-A	38-C	39-C	40-D	41-B	42-A
43-B	44-E	45-A	46-B	47-A	48-D
49-B	50-D	51-A	52-D	53-B	54-C
55-D	56-E	57-A	58-A	59-B	60-C
61-D	62-E	63-A	64-C	65-B	

ÜNİTE 4 UNIT 4	ANALİTİK GEOMETRİ YÖS SORULARI ANALYTIC GEOMETRY YÖS QUESTIONS	ALİŞTIRMALAR EXERCISES
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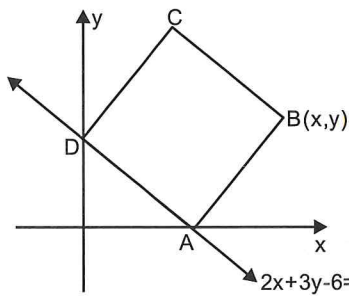
1.



$d_1: y = 2x + 8$
 $d_2: y = 3x - 6$
 $A(ABC) = ?$

- A) 108 B) 102 C) 92 D) 82 E) 60

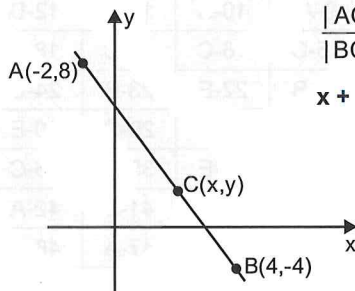
2.



(ABCD) kare
(ABCD is a square)
 $x + y = ?$

- A) 6 B) 7 C) 8 D) 9 E) 10

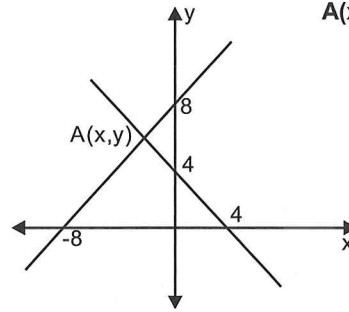
3.



$\frac{|AC|}{|BC|} = \frac{5}{3} \Rightarrow$
 $x + y = ?$

- A) 6 B) $\frac{9}{4}$ C) $\frac{5}{2}$ D) 5 E) $\frac{7}{5}$

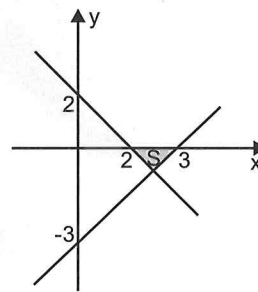
4.



$A(x, y) = ?$

- A) (-2,6) B) (-1,6) C) (-1,5)
D) (-2,5) E) (-2,4)

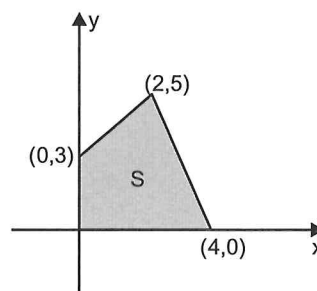
5.



$S = ?$

- A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) $\frac{5}{4}$ D) 2 E) 3

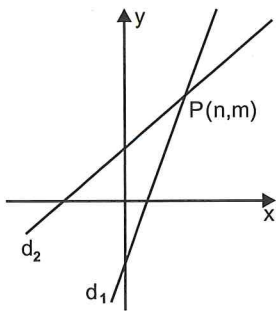
6.



$S = ?$

- A) 8 B) 10 C) 13 D) 15 E) 16

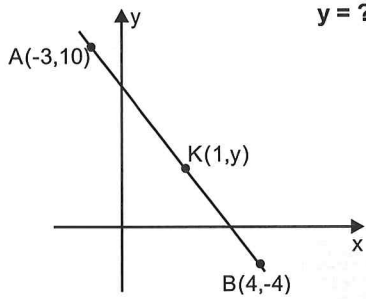
7.



$d_1: y = 2x - 6$
 $d_2: y = x + 1$
 $m + n = ?$

- A) 13 B) 14 C) 15 D) 16 E) 17

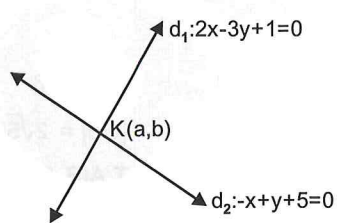
8.



$y = ?$

- A) 2 B) 2,2 C) 2,5 D) 3 E) 4

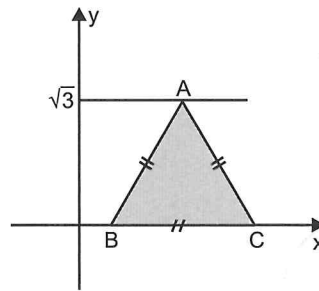
9.



$d_1 \cap d_2 = K$
 $(a, b) = ?$

- A) (-4, 1) B) (-1, 5) C) (7, 13)
 D) (19, 14) E) (16, 11)

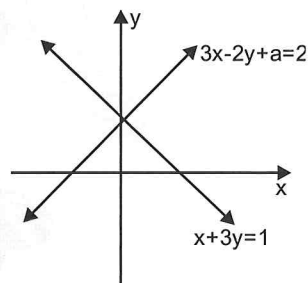
10.



$|AB| = |BC| = |AC|$
 $A(ABC) = ? \text{ cm}^2$

- A) 1 B) 2 C) 3 D) $\sqrt{3}$ E) $2\sqrt{3}$

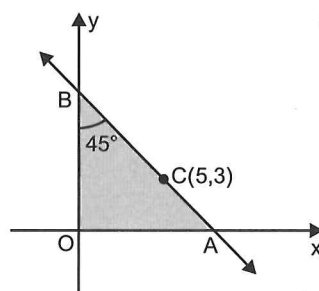
11.



$a = ?$

- A) $\frac{8}{3}$ B) $\frac{4}{3}$ C) $\frac{2}{3}$ D) $-\frac{4}{3}$ E) $-\frac{2}{3}$

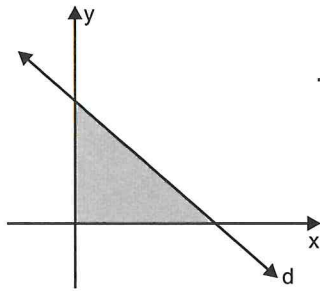
12.



$A(AOB) = ?$

- A) 18 B) 27 C) 32 D) 35 E) 36

13.

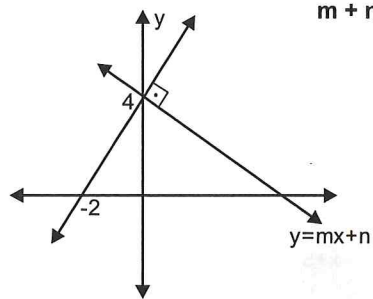


$$d: \frac{x}{6} + \frac{y}{3} = 1$$

$$T.A(S.A) = ?$$

- A) 12 B) 9 C) 8 D) 7 E) 6

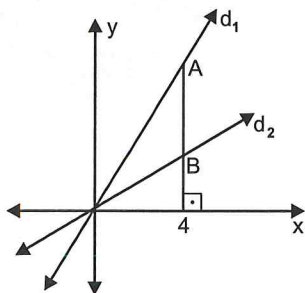
14.



$$m + n = ?$$

- A) 2 B) $\frac{5}{2}$ C) 3 D) $\frac{7}{2}$ E) 4

15.



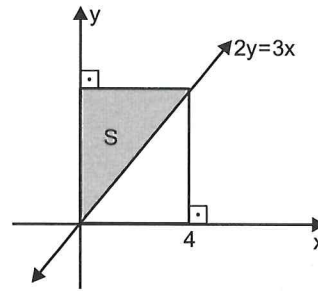
$$d_1: y = 2x$$

$$d_2: 2y = x$$

$$|AB| = ?$$

- A) 8 B) 7 C) 6 D) 5 E) 4

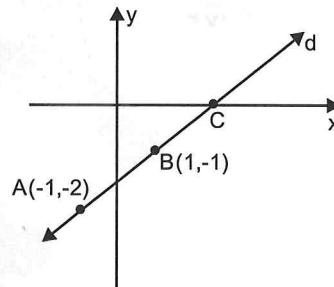
16.



$$S = ?$$

- A) 12 B) 10 C) 9 D) 8 E) 6

17.

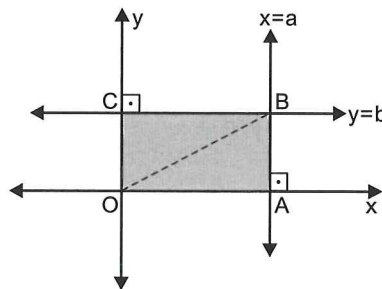


$$C(m,n) \Rightarrow$$

$$m + n = ?$$

- A) 2 B) $\frac{5}{2}$ C) 3 D) $\frac{7}{2}$ E) 4

18.



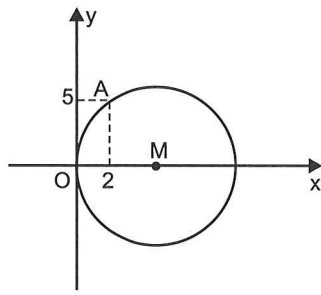
$$a + b = 6$$

$$|OB| = 2\sqrt{5}$$

$$T.A(S.A) = ?$$

- A) 4 B) 5 C) 6 D) 7 E) 8

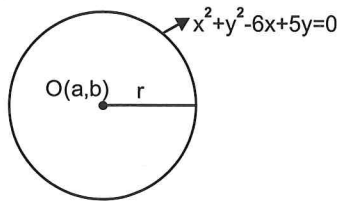
19.



$|OM| = r$
 $r = ?$

- A) 7,25 B) 9,5 C) 9,6 D) 10 E) 10,2

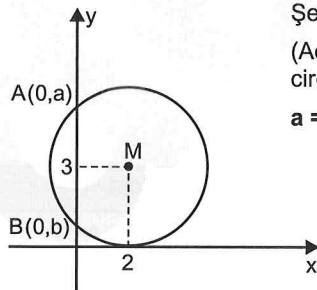
20.



$r = ?$

- A) $\frac{11}{2}$ B) $\frac{15}{2}$ C) $\frac{9}{4}$ D) $\frac{\sqrt{15}}{2}$ E) $\frac{\sqrt{61}}{2}$

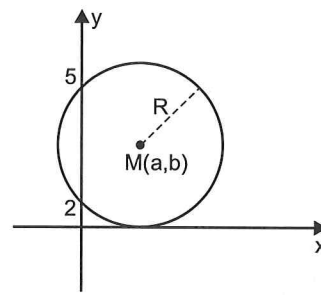
21.



Şekildeki çemberde
(According to the circle in the figure)
 $a = ?$

- A) $3\sqrt{3}$ B) $3 + \sqrt{3}$ C) $3 + \sqrt{5}$ D) 4 E) 5

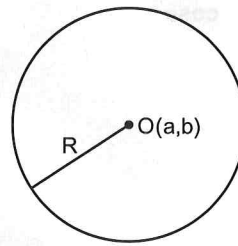
22.



Şekildeki çemberde
(According to the circle in the figure)
 $R = ?$

- A) $\frac{5}{2}$ B) 3 C) $\frac{7}{2}$ D) 4 E) $\frac{9}{2}$

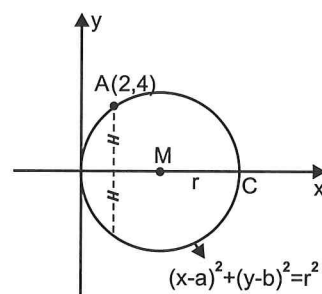
23.



$x^2 + y^2 - 4x + 6y + 9 = 0$
 $(a,b) = (?, ?); R = ?$

- A) (-2,3); 2 B) (2,3); 3 C) (-2,3); 3
D) (2,-3); 3 E) (2,-3); 2

24.



$a + b + r = ?$

- A) 30 B) 25 C) 15 D) 10 E) 8

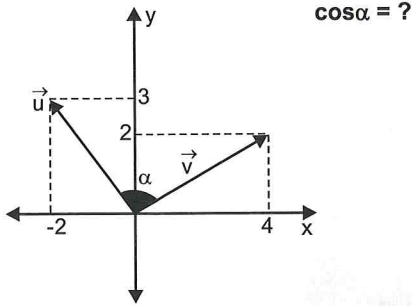
25. $\vec{A} + \vec{B} = (2, -1)$

$|\vec{A}|^2 + |\vec{B}|^2 = 15$

$\langle \vec{A}, \vec{B} \rangle = ?$

- A) -10 B) -6 C) -5 D) -4 E) -3

26.



$\cos \alpha = ?$

- A) $-\frac{\sqrt{65}}{65}$ B) $-\frac{\sqrt{39}}{39}$ C) $-\frac{\sqrt{13}}{13}$
 D) $\frac{\sqrt{26}}{9}$ E) $\frac{\sqrt{13}}{5}$

27. $\vec{a} = (2, 8)$

$\vec{b} = (m, 4)$

$\vec{a} = k \cdot \vec{b} \Rightarrow m = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

28. $3\vec{e}_1 - \vec{e}_2 = x(\vec{e}_1 + \vec{e}_2) + y(-\vec{e}_1)$

$x + y = ?$

- A) -6 B) -5 C) -4 D) 4 E) 5

29. $\vec{A} = (-1, 2)$, $\vec{B} = (3, 0)$, $\vec{C} = (4, 2)$, $\vec{D} = (a, 3)$

$\vec{AB} \perp \vec{CD} \Rightarrow a = ?$

- A) $\frac{5}{2}$ B) $\frac{7}{2}$ C) $\frac{9}{2}$ D) $\frac{11}{2}$ E) $\frac{13}{2}$

CEVAPLAR / ANSWERS

1-A	2-C	3-B	4-A	5-A	6-C
7-C	8-A	9-E	10-D	11-A	12-C
13-B	14-D	15-C	16-A	17-C	18-E
19-A	20-E	21-C	22-C	23-E	24-D
25-C	26-A	27-A	28-B	29-C	

ÜNİTE 5

UNIT 5

\mathbb{R}^3 - KATI CİSİMLER

\mathbb{R}^3 AND SOLIDS

- ★ KATI CİSİMLER 281-290
SOLIDS
- ★ \mathbb{R}^3 VEKTÖRLER 291-300
 \mathbb{R}^3 VECTORS IN SPACE
- ★ \mathbb{R}^3 VEKTÖRLER YÖS SORULARI 301-301
 \mathbb{R}^3 VECTORS IN SPACE YÖS QUESTIONS

ÜNİTE 5

UNIT 5

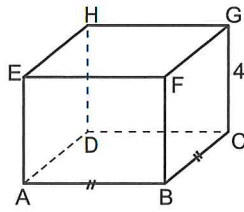
A KATI CİSİMLER

SOLIDS

BÖLÜM 1

CHAPTER 1

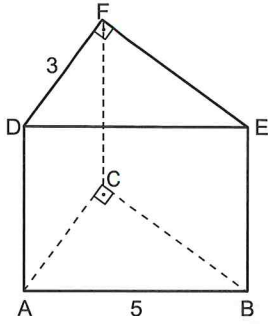
1.



Yanal alan = 80 cm^2
(Lateral area)
 $V = ? \text{ cm}^3$

- A) 100 B) 120 C) 125 D) 150 E) 200

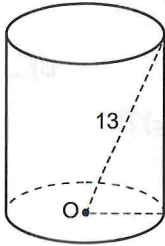
2.



$V = 24 \text{ cm}^3$
Prizmanın alanı = $? \text{ cm}^2$
(Total area = $A = ?$)

- A) 72 B) 60 C) 50 D) 48 E) 40

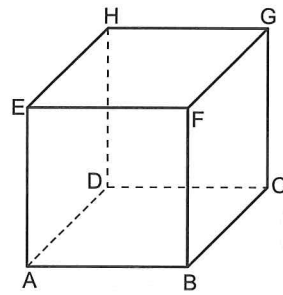
3.



Taban alanı = $25\pi \text{ cm}^2$
(The base area)
 $V = ?\pi \text{ cm}^3$

- A) 360 B) 320 C) 300 D) 250 E) 200

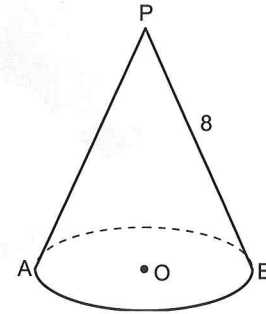
4.



(ABCDEFGH) küptür
(ABCDEFGH is a cube)
 $A = 96 \text{ cm}^2$
 $V = ? \text{ cm}^3$

- A) 27 B) 48 C) 64 D) 72 E) 125

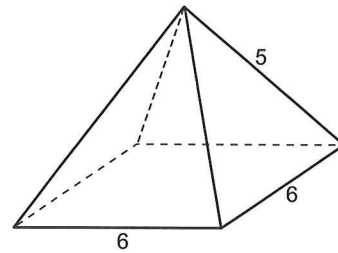
5.



(PAB) koni / (cone)
Taban alanı = $28\pi \text{ cm}^2$
(The base area)
 $V = ?\pi \text{ cm}^3$

- A) 72 B) 68 C) 62 D) 56 E) 50

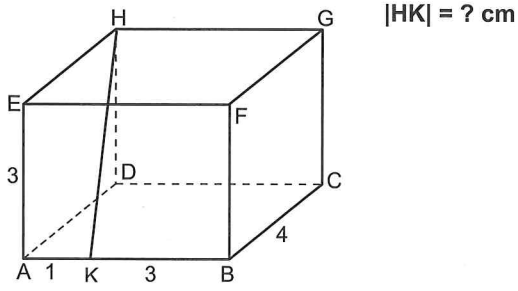
6.



Düzensün piramit
(Regular pyramid)
 $A = ? \text{ cm}^2$

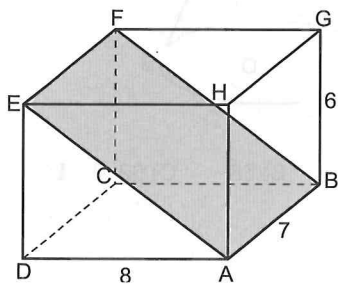
- A) 68 B) 72 C) 78 D) 80 E) 84

7.



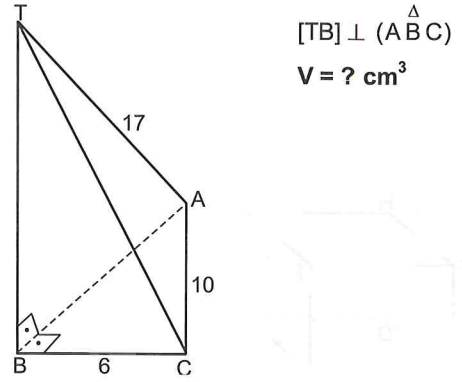
- A) $\sqrt{26}$ B) $\sqrt{33}$ C) $2\sqrt{10}$ D) 7 E) 8

8.



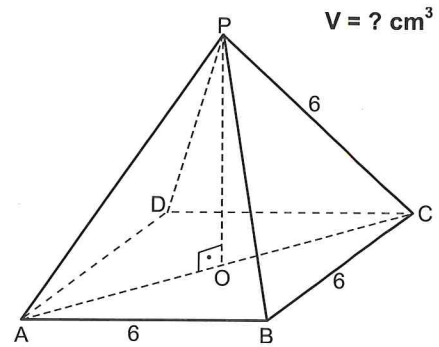
- A) 80 B) 70 C) 60 D) 50 E) 40

9.



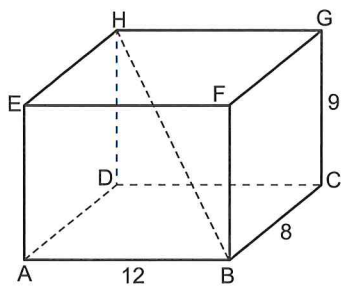
- A) 100 B) 110 C) 120 D) 150 E) 160

10.



- A) $18\sqrt{2}$ B) 36 C) $36\sqrt{2}$
D) $54\sqrt{2}$ E) 72

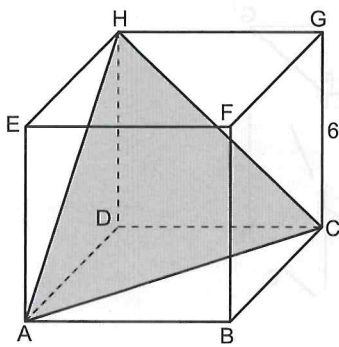
11.



$|HB| = ? \text{ cm}$

- A) 10 B) 13 C) 15 D) 17 E) 20

12.

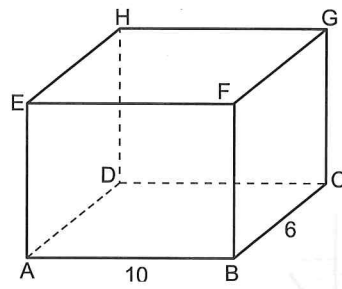


(ABCDEFGH) küp
(ABCDEFGH is a cube)

$A(HAC) = ? \text{ cm}^2$

- A) $36\sqrt{3}$ B) $32\sqrt{3}$ C) $28\sqrt{3}$
D) $24\sqrt{3}$ E) $18\sqrt{3}$

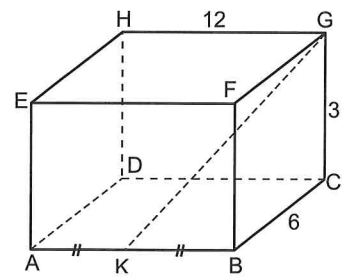
13.



$V = 300 \text{ cm}^3$
 $A = ? \text{ cm}^2$
(total area)

- A) 320 B) 280 C) 240 D) 200 E) 180

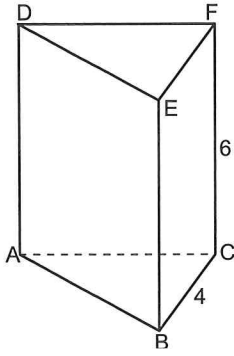
14.



$|GK| = ? \text{ cm}$

- A) 7 B) 8 C) 9 D) 10 E) 13

15.

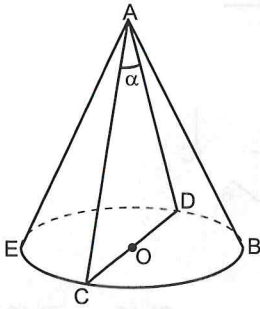


(ABC) eşkenar üçgen
(ABC is an equilateral triangle)

$$V = ? \text{ cm}^3$$

- A) $24\sqrt{3}$ B) $28\sqrt{3}$ C) $30\sqrt{3}$
D) $36\sqrt{3}$ E) $48\sqrt{3}$

16.



(AEB) koni / (cone)

$$O \in [CD]$$

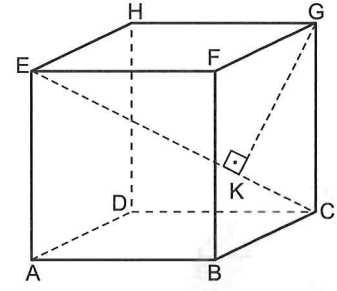
$$|CD| = 6 \text{ cm}$$

$$V = 9\sqrt{3} \pi \text{ cm}^3$$

$$m(\widehat{CAD}) = \alpha = ?$$

- A) 30 B) 45 C) 60 D) 75 E) 90

17.



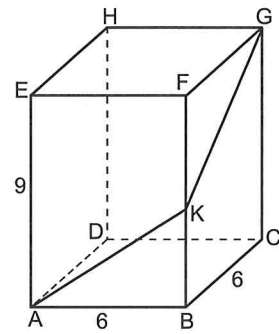
(ABCDEFGH bir küp / (ABCD is a cube)

$$V = 216 \text{ cm}^3$$

$$|GK| = ? \text{ cm}$$

- A) $2\sqrt{2}$ B) $2\sqrt{3}$ C) $3\sqrt{3}$ D) $2\sqrt{6}$ E) $3\sqrt{6}$

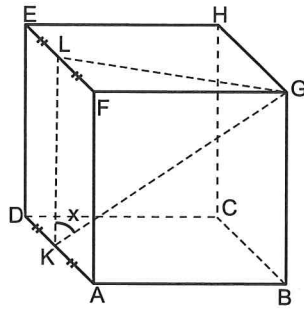
18.



$$(|AK| + |KG|)_{\min} = ? \text{ cm}$$

- A) 10 B) 13 C) 15 D) 17 E) 20

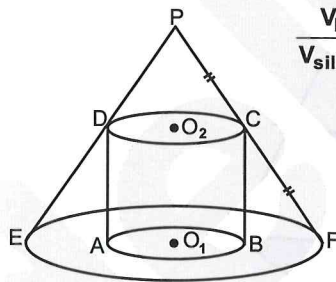
19.



(ABCDEFGH) küptür
(ABCDEFGH is a cube)
 $\cos x = ?$

- A) $\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{1}{4}$ D) $\frac{1}{2}$ E) $\frac{3}{4}$

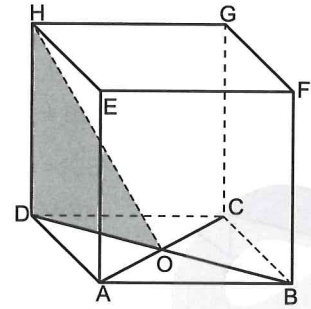
20.



(PEF) koni / (cone)
 $\frac{V_{\text{koni}}(\text{Cone})}{V_{\text{silindir}}(\text{cylinder})} = ?$

- A) 2 B) $\frac{8}{3}$ C) 3 D) $\frac{10}{3}$ E) 4

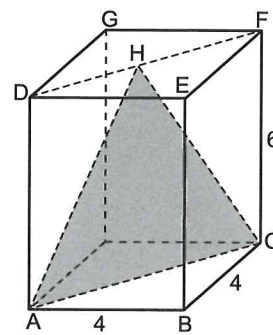
21.



(ABCDEFGH) küp
(ABCDEFGH is a cube)
 $V = 64 \text{ cm}^3$
 $A(\text{HDO}) = ? \text{ cm}^2$

- A) $4\sqrt{2}$ B) $6\sqrt{2}$ C) $8\sqrt{2}$ D) 16 E) 18

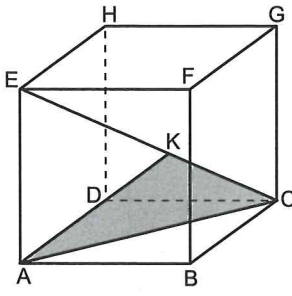
22.



$A(\text{HAC}) = ? \text{ cm}^2$

- A) 12 B) $6\sqrt{2}$ C) $12\sqrt{2}$ D) $18\sqrt{2}$ E) 24

23.



(ABCDEFGH) küptür
(ABCDEFGH is a cube)

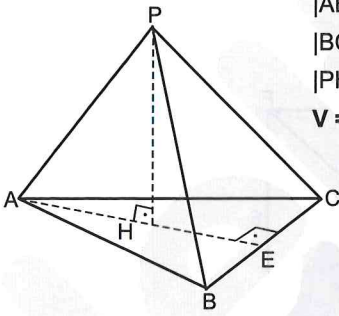
$$|EK| = 3\sqrt{3}$$

$$|EC| = 5\sqrt{3}$$

$$A(KAC) = ? \text{ cm}^2$$

- A) $3\sqrt{2}$ B) $4\sqrt{2}$ C) $5\sqrt{2}$ D) $7\sqrt{2}$ E) $10\sqrt{2}$

24.



$$|AB| = |AC| = 13 \text{ cm}$$

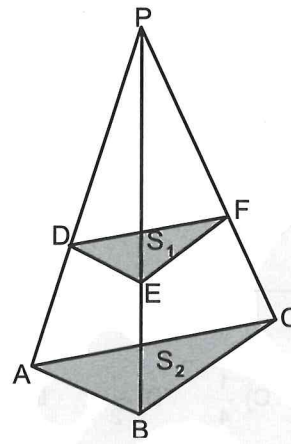
$$|BC| = 10 \text{ cm}$$

$$|PH| = 8 \text{ cm}$$

$$V = ? \text{ cm}^3$$

- A) 160 B) 180 C) 210 D) 240 E) 260

25.



$$|PD| = 2|AD|$$

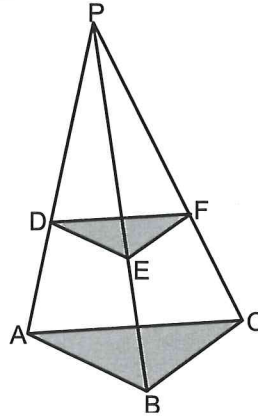
$$[DE] \parallel [AB]$$

$$[EF] \parallel [BC]$$

$$\frac{S_1}{S_2} = ?$$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) $\frac{1}{3}$ D) $\frac{2}{9}$ E) $\frac{4}{9}$

26.



$$|PD| = 2|AD|$$

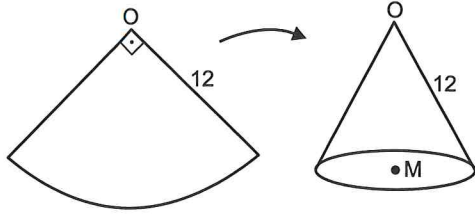
$$[DE] \parallel [AB]$$

$$[EF] \parallel [BC]$$

$$\frac{V_{(PDEF)}}{V_{(PABC)}} = ?$$

- A) $\frac{8}{21}$ B) $\frac{8}{27}$ C) $\frac{4}{9}$ D) $\frac{8}{25}$ E) $\frac{9}{28}$

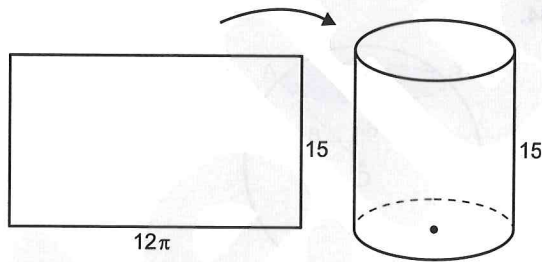
27.



$$V_{\text{koni(Cone)}} = ? \pi \text{ cm}^3$$

- A) $20\sqrt{5}$ B) $16\sqrt{5}$ C) $3\sqrt{15}$
 D) $6\sqrt{15}$ E) $9\sqrt{15}$

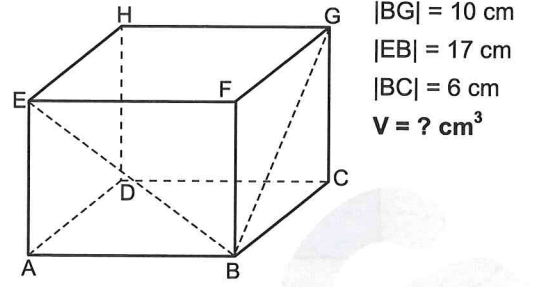
28.



$$V_{\text{silindir(Cylinder)}} = ? \pi \text{ cm}^3$$

- A) 600 B) 540 C) 450 D) 360 E) 280

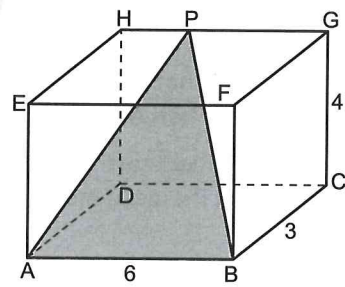
29.



$$\begin{aligned} |BG| &= 10 \text{ cm} \\ |EB| &= 17 \text{ cm} \\ |BC| &= 6 \text{ cm} \\ V &= ? \text{ cm}^3 \end{aligned}$$

- A) 360 B) 480 C) 540 D) 600 E) 720

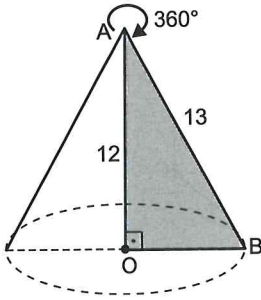
30.



$$A(\text{PAB}) = ? \text{ cm}^2$$

- A) 15 B) 18 C) 20 D) 25 E) 30

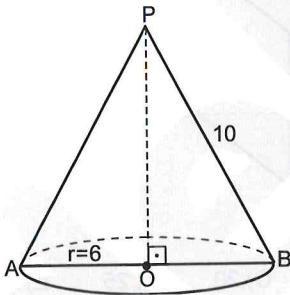
31.



$$V_{\text{koni(Cone)}} = ? \text{ cm}^3$$

- A) 96π B) 100π C) 120π D) 144π E) 180π

32.

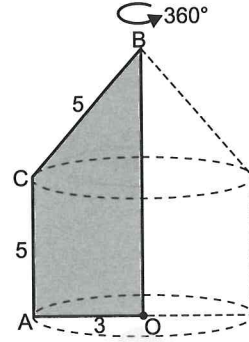


$$\frac{\text{Yanal Alan}}{\text{Taban Alan}} = ?$$

$$\frac{(\text{The lateral area})}{(\text{The base area})} = ?$$

- A) $\frac{5}{3}$ B) $\frac{4}{3}$ C) $\frac{7}{3}$ D) $\frac{7}{6}$ E) $\frac{5}{6}$

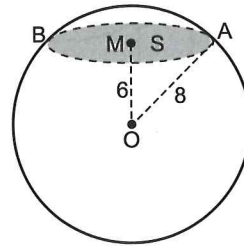
33.



$$V = ? \text{ cm}^3$$

- A) 45π B) 50π C) 57π D) 63π E) 69π

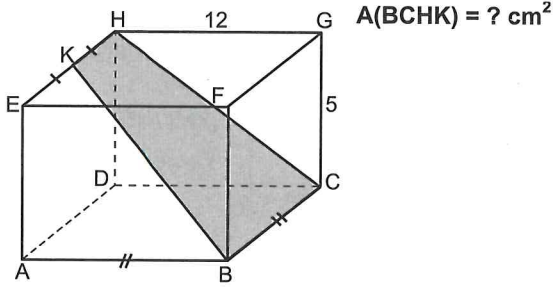
34.



$$S = ? \pi \text{ cm}^2$$

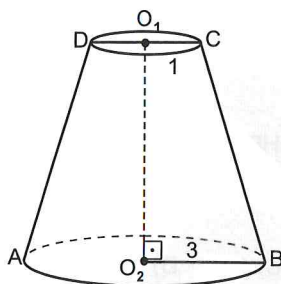
- A) 20 B) 24 C) 26 D) 28 E) 30

35.



- A) 100 B) 112 C) 117 D) 123 E) 135

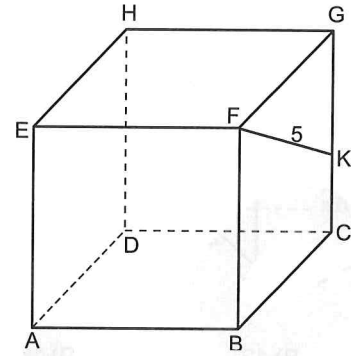
36.



$$\begin{aligned} |O_1C| &= 1 \text{ cm} \\ |O_2B| &= 3 \text{ cm} \\ |O_1O_2| &= 6 \text{ cm} \\ V &= ? \pi \text{ cm}^3 \end{aligned}$$

- A) 26 B) 28 C) 30 D) 32 E) 36

37.



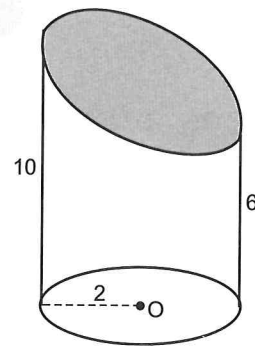
(ABCDEFGH) bir küp / (ABCDEFGH is a cube)

$$3 \cdot |KC| = |GK|$$

$$\text{Alan} / (\text{Total area}) = ? \text{ cm}^2$$

- A) 60 B) 72 C) 84 D) 96 E) 100

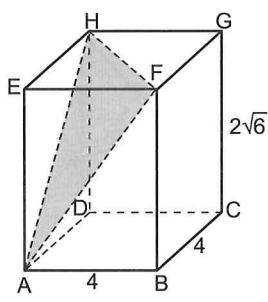
38.



$$V = ? \pi \text{ cm}^3$$

- A) 24 B) 28 C) 32 D) 36 E) 48

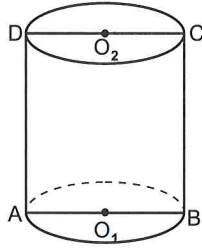
39.



$$A(AHF) = ? \text{ cm}^2$$

- A) 10 B) 12 C) 14 D) 16 E) 18

40.



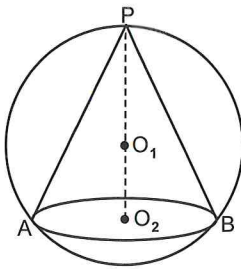
$$|AB| = |BC| = 10 \text{ cm}$$

$$\text{Silindir alanı} = ? \pi \text{ cm}^2$$

(The total area)

- A) 125 B) 150 C) 175 D) 200 E) 250

41.



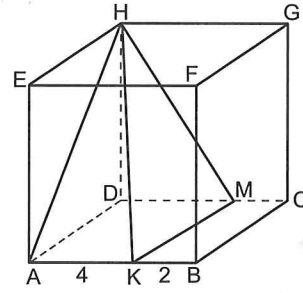
$$|PO_1| = 5 \text{ cm}$$

$$|O_1O_2| = 4 \text{ cm}$$

$$V_{\text{koni(cone)}} = ? \pi \text{ cm}^3$$

- A) 18 B) 27 C) 33 D) 36 E) 45

42.



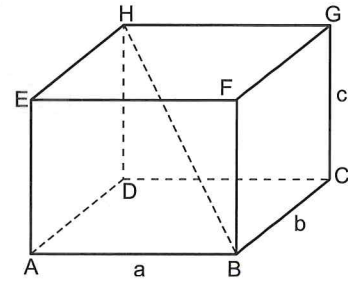
(ABCDEFGH) küp
(ABCDEFGH is a cube)

$$[KM] \parallel [BC]$$

$$V_{(H'AKMD)} = ? \text{ cm}^3$$

- A) 48 B) 60 C) 72 D) 84 E) 96

43.



$$a + b + c = 15 \text{ cm}, |HB| = 10 \text{ cm}$$

$$\text{Alan}_{(\text{total area})} = ? \text{ cm}^2$$

- A) 125 B) 150 C) 160 D) 180 E) 200

CEVAPLAR / ANSWERS

1-A	2-B	3-C	4-C	5-D	6-E
7-A	8-B	9-C	10-C	11-D	12-E
13-B	14-C	15-A	16-C	17-D	18-C
19-B	20-B	21-A	22-C	23-C	24-A
25-E	26-B	27-E	28-B	29-E	30-A
31-B	32-A	33-C	34-D	35-C	36-A
37-D	38-C	39-D	40-B	41-B	42-A
43-A					

ÜNİTE 5
UNIT 5
R³ VEKTÖRLER
R³ VECTORS IN SPACE
BÖLÜM 2
CHAPTER 2

1. $\vec{A} = (3, 4, 12) \Rightarrow |\vec{A}| = ?$ br (unit)

- A) 10 B) 12 C) 13 D) 15 E) 17

2. $\vec{u} = (2, -2, 3)$

$\vec{v} = (-4, 1, 5)$

$3\vec{u} - 2\vec{v} = ?$

- A) (12, 8, -1) B) (14, -8, -1) C) (2, -8, -1)
 D) (6, 8, 1) E) (14, -6, 1)

3. A(5, -1, 4)

B(3, 1, 3)

$|\vec{AB}| = ?$ br (u)

- A) 2 B) 3 C) 4 D) 5 E) 6

4. $\vec{A} = (x-1, 3, y+1)$

$\vec{B} = (6, z-x, 5)$

$\vec{A} = \vec{B}$

$x + y + z = ?$

- A) 21 B) 22 C) 23 D) 24 E) 25

5. $\vec{A} = (1, 3, -2)$

$\vec{B} = (4, 1, 4)$

$|\vec{A} - \vec{B}| = ?$ br (u)

- A) 4 B) 5 C) 6 D) 7 E) 8

6. $\vec{A} = (2, 1, 4)$

$\vec{B} = (0, 1, -1)$

$\vec{C} = (3, 2, 7)$

$\vec{AB} + \vec{C} = ?$

- A) (-1, 2, 1) B) (2, 0, 2) C) (1, 2, 3)
 D) (1, 0, 2) E) (1, 2, 2)

7. $A(2, 3, 1)$
 $B(-1, 2, 3)$
 $C(0, 5, a)$
 $|\vec{AB}| = |\vec{BC}| \Rightarrow \Sigma a = ?$
- A) 3 B) 4 C) 5 D) 6 E) 7

8. $\vec{AB} = (4, 3, -1)$
 $\vec{B} = (4, 0, 3)$
 $|\vec{A}| = ?$
- A) 3 B) 4 C) 5 D) 6 E) 7

9. $\vec{A} = (3, 2, 5)$
 $\vec{B} = (x, 1, z)$
 $\vec{A} // \vec{B} \Rightarrow x + z = ?$
- A) 3 B) 4 C) 5 D) 6 E) 7

10. $\vec{A} = (3, 2, a)$
 $\vec{B} = (-1, 2, 1)$
 $\vec{A} \perp \vec{B} \Rightarrow a = ?$
- A) -1 B) 0 C) 1 D) 2 E) 3

11. $\vec{A} = 2e_1 + 3e_2 + 6e_3$
 $\vec{B} = 3e_1 + 4e_3$
 $m(\vec{A}, \vec{B}) = \alpha^\circ \Rightarrow \cos \alpha = ?$
- A) $\frac{5}{6}$ B) $\frac{6}{7}$ C) $\frac{7}{8}$ D) $\frac{8}{9}$ E) $\frac{9}{10}$

12. $\vec{AB} = 2e_1 + 3e_2 + 2e_3$
 $\vec{AC} = 3e_1 + e_2 - e_3$
 $\vec{BC} = ?$
- A) (1, 2, 3) B) (1, -2, 3) C) (1, 2, -3)
 D) (2, 2, 3) E) (1, -2, -3)

13. $|\vec{a}| = 4, |\vec{b}| = 2$

$m(\vec{a}, \vec{b}) = 60^\circ$

$(2\vec{a} + \vec{b}) \cdot (\vec{a} + 4\vec{b}) = ?$

- A) 56 B) 70 C) 72 D) 84 E) 96

14. $A(1, 2, 3), B(3, a, 0), C(2, 1, 2), D(0, 4, b)$

$\vec{AB} \parallel \vec{CD} \Rightarrow a + b = ?$

- A) -4 B) -2 C) 1 D) 2 E) 4

15. $\langle \vec{A}, \vec{B} \rangle = 12$

$|\vec{A}| = 4$

$m(\vec{A}, \vec{B}) = 60^\circ \Rightarrow |\vec{B}| = ?$ br (u)

- A) 9 B) 8 C) 7 D) 6 E) 5

16. $\vec{A} = (3, 1, 2)$

$\vec{B} = (-1, 0, 2)$

$\vec{C} = (3, 0, 3)$

$\langle \vec{AB}, \vec{C} \rangle = ?$

- A) -12 B) -8 C) -4 D) 6 E) 12

17. $\vec{A} = (4, 1, 2)$

$\vec{B} = (-1, 2, -3)$

$\vec{C} = (2, 1, 0)$

$\langle \vec{A}, \vec{B} \rangle + \langle \vec{A}, \vec{C} \rangle = ?$

- A) 6 B) 5 C) 3 D) 2 E) 1

18. $\vec{A} = (3, 1, 2)$

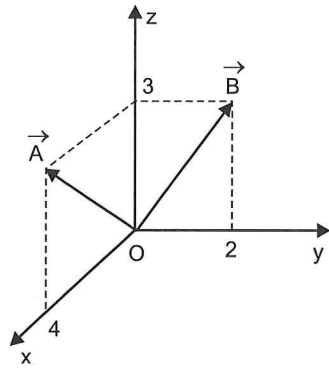
$\vec{B} = (-1, 3, 2)$

$\vec{C} = (3, 0, 4)$

$|\vec{A} + \vec{B}|^2 - |\vec{C}|^2 = ?$

- A) 11 B) 12 C) 13 D) 14 E) 15

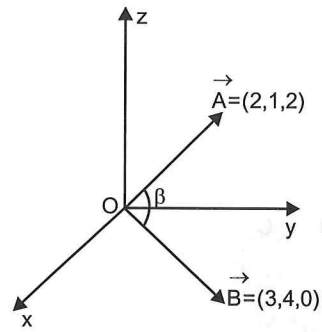
19.



$A \in (xoz)$
 $B \in (yoz)$
 $|\vec{AB}| = ?$

- A) $2\sqrt{5}$ B) 5 C) $2\sqrt{7}$ D) 6 E) 7

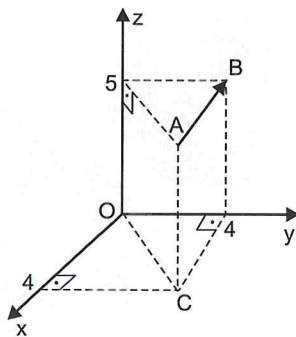
21.



$\cos\beta = ?$

- A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) $\frac{3}{4}$ E) $\frac{4}{5}$

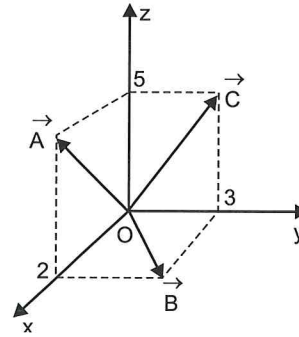
20.



$C \in (xoy)$
 $B \in (yoz)$
 $|\vec{AB}| = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

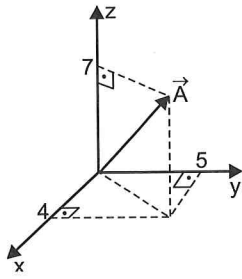
22.



$A \in (xoz)$
 $B \in (xoy)$
 $C \in (yoz)$
 $\vec{A} + \vec{B} + \vec{C} = (a, b, c)$
 $a + b + c = ?$

- A) 10 B) 15 C) 18 D) 20 E) 22

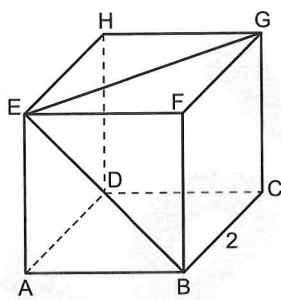
23.



$\vec{A} = ? \text{ br } (u)$

- A) $3\sqrt{10}$ B) 9 C) $6\sqrt{2}$ D) $\sqrt{65}$ E) 8

24.

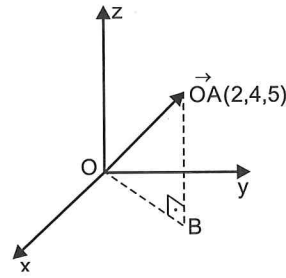


(ABCDEFGH) küp
(ABCDEFGH is a cube)

$\langle \vec{EG}, \vec{EB} \rangle = ?$

- A) 3 B) 4 C) 5 D) 6 E) 8

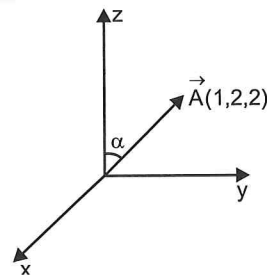
25.



$B \in (xoy)$
 $|\vec{OB}| = ? \text{ br } (u)$

- A) 5 B) 4 C) $2\sqrt{5}$ D) $2\sqrt{3}$ E) 3

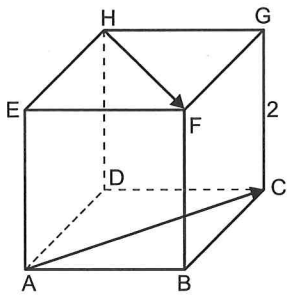
26.



$\cos \alpha = ?$

- A) $\frac{1}{2}$ B) $\frac{\sqrt{3}}{2}$ C) $\frac{1}{3}$ D) $\frac{2}{3}$ E) $\frac{4}{3}$

27.

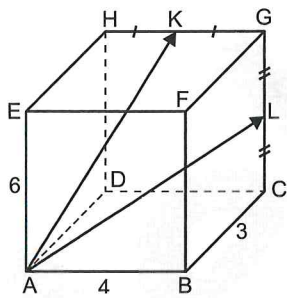


(ABCDEFGH) küp
(ABCDEFGH is a cube)

$\langle \vec{AC}, \vec{HF} \rangle = ?$

- A) -1 B) 0 C) 1 D) 2 E) 3

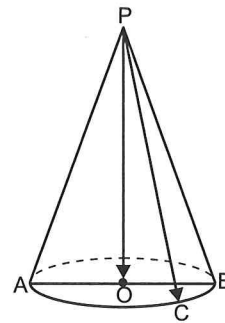
28.



$\langle \vec{AK}, \vec{AL} \rangle = ?$

- A) 35 B) 32 C) 25 D) 20 E) 18

29.



(PAB) koni / (cone)

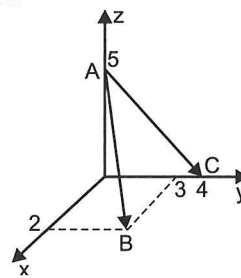
$|OA| = r = 5$ cm

$|PA| = 13$ cm

$\langle \vec{PO}, \vec{PC} \rangle = ?$

- A) 100 B) 144 C) 156 D) 169 E) 200

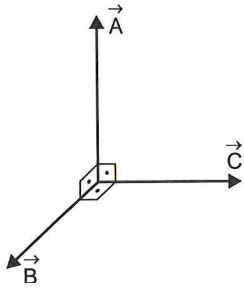
30.



$\langle \vec{AB}, \vec{AC} \rangle = ?$

- A) 25 B) 28 C) 33 D) 35 E) 37

31.



$$|\vec{A}| = 8 \text{ br (u)}$$

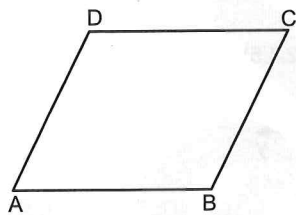
$$|\vec{B}| = 6 \text{ br (u)}$$

$$|\vec{C}| = 5 \text{ br (u)}$$

$$|\vec{A} + \vec{B} + \vec{C}| = ? \text{ br (u)}$$

- A) 10 B) $5\sqrt{5}$ C) $6\sqrt{5}$ D) $10\sqrt{2}$ E) 15

32.



(ABCD) paralelkenar
(ABCD is a parallelogram)

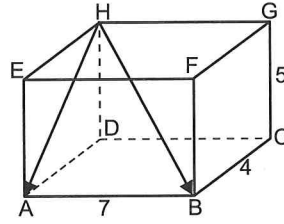
$$\vec{AD} = (2, 0, 1)$$

$$\vec{AB} = (3, 0, -1)$$

$$A(\text{ABCD}) = ? \text{ br}^2 (\text{u}^2)$$

- A) 5 B) 7 C) 10 D) 15 E) 20

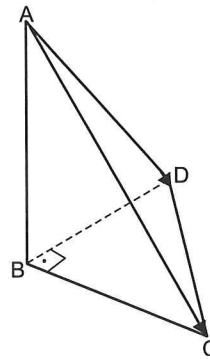
33.



$$\langle \vec{HA}, \vec{HB} \rangle = ?$$

- A) 61 B) 51 C) 41 D) 31 E) 21

34.



$$[AB] \perp (\triangle BCD)$$

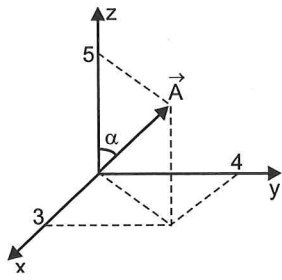
$$|AB| = 6 \text{ br (u)}$$

$$|BD| = |BC| = 4 \text{ br (u)}$$

$$\langle \vec{AC}, \vec{AD} \rangle = ?$$

- A) 48 B) 42 C) 38 D) 36 E) 32

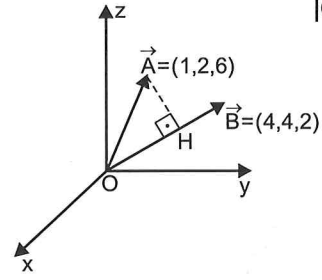
35.



$\alpha = ?$

- A) 15 B) 30 C) 45 D) 60 E) 75

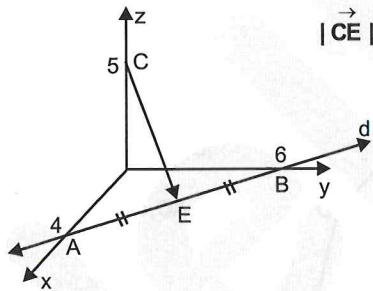
37.



$|OH| = ?$

- A) 2 B) 3 C) 4 D) 5 E) 6

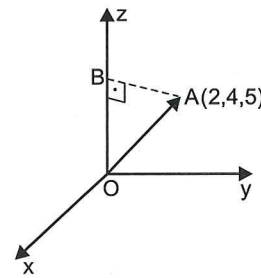
36.



$|\vec{CE}| = ?$

- A) 6 B) $\sqrt{38}$ C) $2\sqrt{10}$ D) $3\sqrt{5}$ E) $\sqrt{47}$

38.

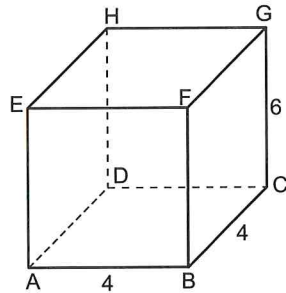


$\vec{OA} = (2, 4, 5)$

$|AB| = ? \text{ br } (u)$

- A) 2 B) 3 C) 4 D) $2\sqrt{5}$ E) $3\sqrt{5}$

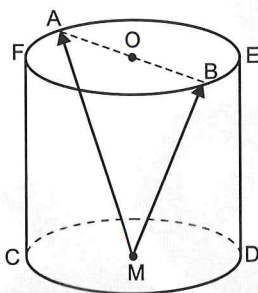
39.



$\vec{AE} \cdot (\vec{AB} + \vec{BC} + \vec{CG}) = ?$

- A) 36 B) 38 C) 42 D) 44 E) 48

40.



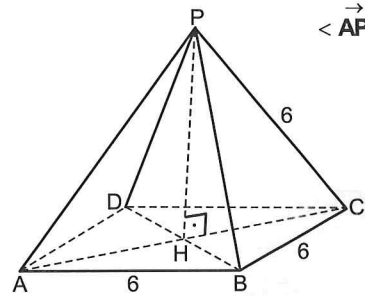
$|AB| = 6 \text{ cm}$

$|DE| = 3\sqrt{3} \text{ cm}$

$\langle \vec{MA}, \vec{MB} \rangle = ?$

- A) 18 B) 24 C) 30 D) 32 E) 36

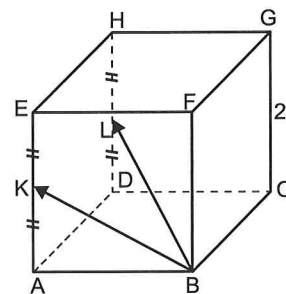
41.



$\langle \vec{AP}, \vec{AC} \rangle = ?$

- A) 32 B) 36 C) 42 D) 48 E) 54

42.



(ABCDEFGH) küp
(ABCDEFGH is a cube)

$|EK| = |KA|$

$|HL| = |LD|$

$\langle \vec{BK}, \vec{BL} \rangle = ?$

- A) 1 B) 2 C) 3 D) 4 E) 5

43. A(3, 1, 0), B(2, 1, 3), C(0, -1, 2), D(4, 1, 3)

$$\vec{AB} + \vec{BC} + \vec{CD} = \vec{X}$$

$$|\vec{X}| = ? \text{ br (u)}$$

- A) 3 B) $\sqrt{10}$ C) $2\sqrt{3}$ D) 4 E) $2\sqrt{5}$

44. $\vec{A} = (1, 2, -1)$, $\vec{B} = (3, -2, a)$, $\vec{C} = (6, b, c)$

$$\vec{A} \perp \vec{B}, \vec{B} \parallel \vec{C}$$

$$a + b + c = ?$$

- A) -7 B) -5 C) 0 D) 3 E) 6

45. $\vec{A} \perp \vec{B}$, $\vec{A} + \vec{B} = \vec{C}$

$$\vec{A} = (-1, 2, 3), \vec{B} = (4, -1, a)$$

$$|\vec{C}| = ? \text{ br (u)}$$

- A) 5 B) $2\sqrt{7}$ C) $\sqrt{35}$ D) 6 E) $\sqrt{39}$

46. $\vec{A} = (2, 0, 2)$, $\vec{B} = (0, y, 2)$, $m(\vec{A}, \vec{B}) = 60^\circ$

$$\Sigma y = ?$$

- A) -2 B) 0 C) 2 D) 4 E) 6

47. $\vec{AB} + \vec{CD} = (4, -2, 4)$

$$|\vec{CB} + \vec{AD}| = ? \text{ br (u)}$$

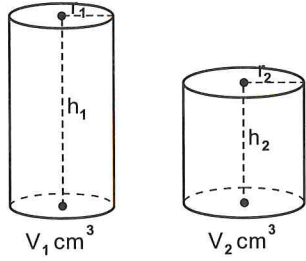
- A) 5 B) 6 C) 7 D) 8 E) 9

CEVAPLAR / ANSWERS

1-C	2-B	3-B	4-A	5-D	6-E
7-D	8-C	9-B	10-A	11-B	12-E
13-D	14-E	15-D	16-A	17-E	18-A
19-A	20-C	21-C	22-D	23-A	24-B
25-C	26-D	27-B	28-A	29-B	30-E
31-B	32-A	33-C	34-D	35-C	36-B
37-C	38-D	39-A	40-A	41-B	42-E
43-B	44-A	45-C	46-B	47-B	

ÜNİTE 5 UNIT 5	R³ VEKTÖRLER YÖS SORULARI R³ VECTORS IN SPACE YÖS QUESTIONS	ALİŞTIRMALAR EXERCISES
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1.



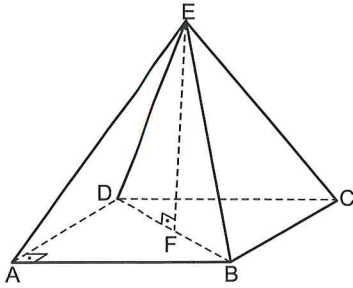
$$V_1 = V_2$$

$$3r_1 = 2r_2$$

$$\frac{h_1}{h_2} = ?$$

- A) 3 B) $\frac{9}{4}$ C) $\frac{3}{2}$ D) $\frac{2}{3}$ E) $\frac{4}{9}$

2.



$$[AB] \perp [AD]$$

$$[BD] \perp [EF]$$

$$[EF] \perp (ABCD)$$

$$|AB| = |BC| = 4 \text{ cm}$$

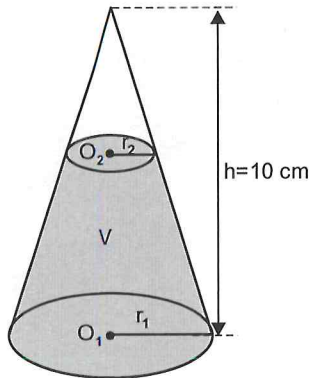
$$|CD| = 4 \text{ cm}$$

$$V_{(ABCDE)} = 96 \text{ cm}^3$$

$$|EF| = ? \text{ cm}$$

- A) 2 B) 6 C) 8 D) 12 E) 18

3.



$$r_1 = 5 \text{ cm}$$

$$r_2 = 2 \text{ cm}$$

$$h = 10 \text{ cm}$$

$$V = ? \text{ cm}^3$$

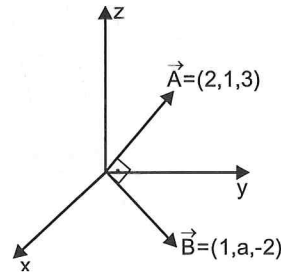
- A) 78π B) $\frac{196\pi}{3}$ C) 62 D) $\frac{127\pi}{3}$ E) $\frac{44\pi}{3}$

4. $\vec{A} = [-3, 2, -1]$, $\vec{B} = [2, 1, 3]$

$$|\vec{A} \cdot \vec{B}| = ?$$

- A) 3 B) 4 C) 5 D) 6 E) 7

5.



$$\vec{A} \perp \vec{B}$$

$$a = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

6. $\vec{u} = (-1, m, 6)$, $\vec{v} = (2, -4, 3)$, $\langle \vec{u}, \vec{v} \rangle = 0$

$$m = ?$$

- A) -3 B) -1 C) 2 D) 3 E) 4

YANITLAR / ANSWER					
1-B	2-E	3-A	4-E	5-D	6-E

