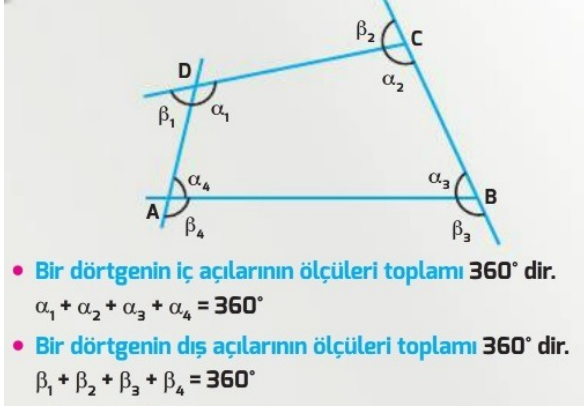


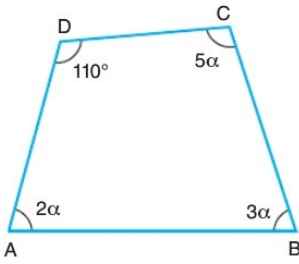
10.SINIF MATEMATİK DÖRTGENLERDE
AÇI SORULARI

10.Sınıf Matematik Dörtgenlerde Açı Konu Tarama Soruları

1.



2.



ABCD bir dörtgen

$$m(\widehat{ADC}) = 110^\circ$$

$$m(\widehat{BAD}) = 2\alpha$$

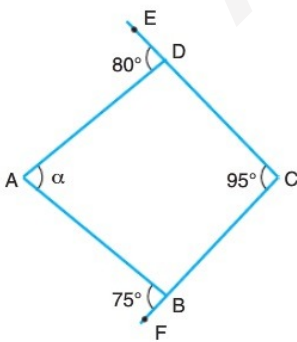
$$m(\widehat{ABC}) = 3\alpha$$

$$m(\widehat{BCD}) = 5\alpha$$

Yukarıdaki verilere göre, $m(\widehat{BAD}) = 2\alpha$ kaç derecedir?

- A) 25 B) 50 C) 75 D) 100 E) 125

3.



ABCD bir dörtgen

$$m(\widehat{ADE}) = 80^\circ$$

$$m(\widehat{BCD}) = 95^\circ$$

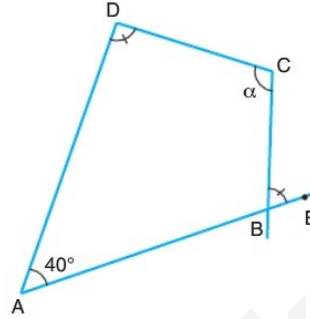
$$m(\widehat{ABF}) = 75^\circ$$

$$m(\widehat{BAD}) = \alpha$$

Yukarıdaki verilere göre, $m(\widehat{BAD}) = \alpha$ kaç derecedir?

- A) 50 B) 60 C) 70 D) 80 E) 90

4.



ABCD bir dörtgen

$$m(\widehat{ADC}) = m(\widehat{CBE})$$

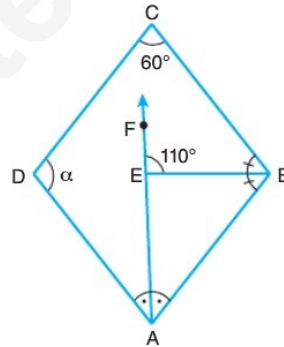
$$m(\widehat{BAD}) = 40^\circ$$

$$m(\widehat{BCD}) = \alpha$$

Yukarıdaki verilere göre, α kaç derecedir?

- A) 170 B) 160 C) 150 D) 140 E) 130

5.



ABCD dörtgen

[AF] ve [BE] açıortay

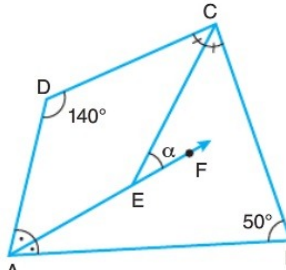
$$m(\widehat{BCD}) = 60^\circ$$

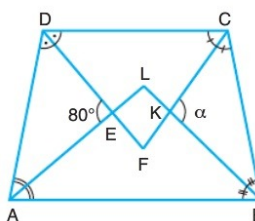
$$m(\widehat{BEF}) = 110^\circ$$

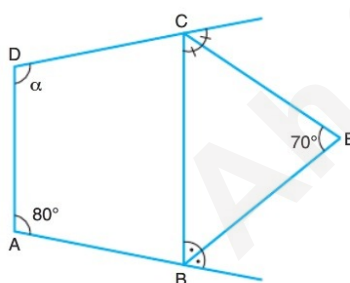
Yukarıdaki verilere göre, $m(\widehat{ADC}) = \alpha$ kaç derecedir?

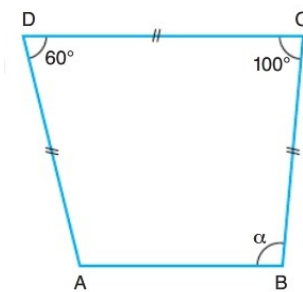
- A) 70 B) 80 C) 90 D) 100 E) 110

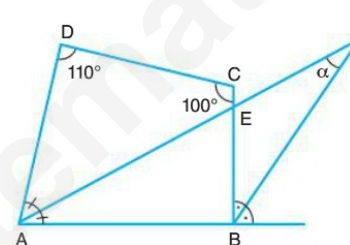
10.SINIF MATEMATİK DÖRTGENLERDE AÇI
SORULARI

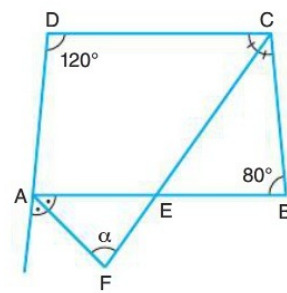
6.  ABCD dörtgen
[AF] ve [CE] açıortay
 $m(\widehat{ADC}) = 140^\circ$
 $m(\widehat{ABC}) = 50^\circ$
Yukarıdaki verilere göre, $m(\widehat{CEF}) = \alpha$ kaç derecedir?
A) 15 B) 30 C) 45 D) 60 E) 75

7.  ABCD bir dörtgen
[AL], [BL], [CF] ve [DF] açıortay
 $m(\widehat{DEA}) = 80^\circ$
Yukarıdaki verilere göre, $m(\widehat{BKC}) = \alpha$ kaç derecedir?
A) 80 B) 90 C) 100 D) 110 E) 120

8.  ABCD bir dörtgen
[CE] ve [BE] açıortay
 $m(\widehat{BAD}) = 80^\circ$
 $m(\widehat{BEC}) = 70^\circ$
Yukarıdaki verilere göre, $m(\widehat{CDA}) = \alpha$ kaç derecedir?
A) 100 B) 110 C) 120 D) 130 E) 140

9.  ABCD bir dörtgen
 $|AD| = |DC| = |BC|$
 $m(\widehat{ADC}) = 60^\circ$
 $m(\widehat{BCD}) = 100^\circ$
Yukarıdaki verilere göre, $m(\widehat{ABC}) = \alpha$ kaç derecedir?
A) 70 B) 80 C) 90 D) 100 E) 110

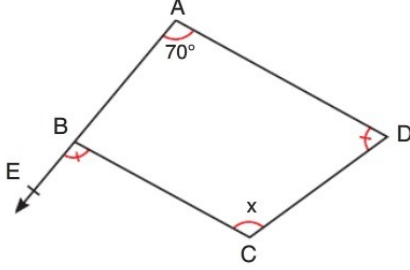
10.  ABCD dörtgen
[BF] ve [AF] açıortay
 $m(\widehat{ADC}) = 110^\circ$
 $m(\widehat{BCD}) = 100^\circ$
 $m(\widehat{AFB}) = \alpha$
Yukarıdaki verilere göre, α kaç derecedir?
A) 10 B) 15 C) 20 D) 25 E) 30

11.  ABCD dörtgen
[AF] ve [CF] açıortay
 $m(\widehat{ABC}) = 80^\circ$
 $m(\widehat{ADC}) = 120^\circ$
 $m(\widehat{AFE}) = \alpha$
Yukarıdaki verilere göre, α kaç derecedir?
A) 50 B) 55 C) 60 D) 65 E) 70

10.SINIF MATEMATİK DÖRTGENİN
ÖZELLİKLERİ

10.Sınıf Matematik Dörtgenin Açı ve Uzunluk Özellikleri Soru Çözümleri

1.

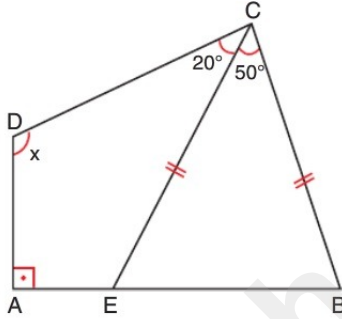


ABCD dörtgen, $m(\widehat{EAD}) = 70^\circ$, $m(\widehat{EBC}) = m(\widehat{ADC})$

Yukarıda verilenlere göre, $m(\widehat{BCD}) = x$ kaç derecedir?

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

2.



ABCD dörtgen

$[DA] \perp [AB]$

$|CE| = |CB|$

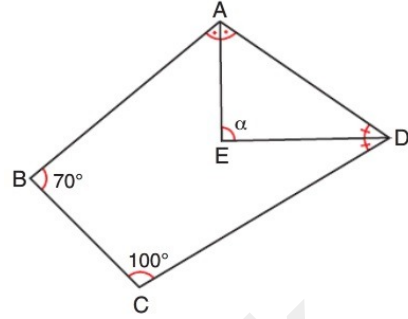
$m(\widehat{DCE}) = 20^\circ$

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

Yukarıda verilenlere göre, $m(\widehat{CDA}) = x$ kaç derecedir?

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

3.



ABCD dörtgen

$[AE]$ ve $[DE]$
açıortay

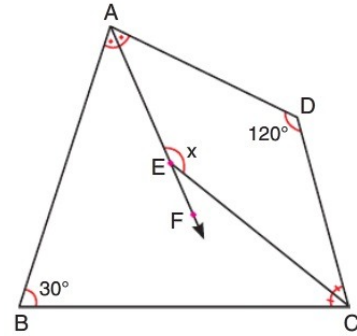
$m(\widehat{ABC}) = 70^\circ$

$m(\widehat{BCD}) = 100^\circ$

Yukarıda verilenlere göre, $m(\widehat{AED}) = \alpha$ kaç derecedir?

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

4.



ABCD dörtgen

$[AF]$ ve $[CE]$ açıortay

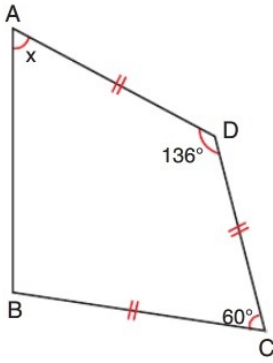
$m(\widehat{ADC}) = 120^\circ$

$m(\widehat{ABC}) = 30^\circ$

Yukarıda verilenlere göre, $m(\widehat{AEC}) = x$ kaç derecedir?

- A) 100 B) 110 C) 115 D) 120 E) 135

5.

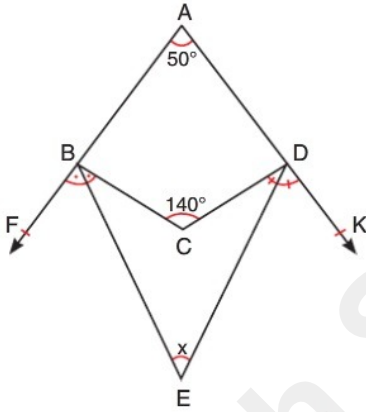


ABCD dörtgen
 $|AD| = |DC| = |CB|$
 $m(\widehat{ADC}) = 136^\circ$
 $m(\widehat{DCB}) = 60^\circ$

Yukarıda verilenlere göre, $m(\widehat{BAD}) = x$ kaç derecedir?

- A) 48 B) 52 C) 56 D) 60 E) 64

6.

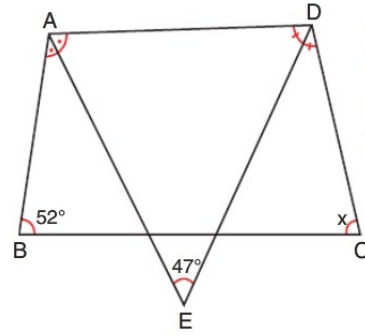


ABCD dörtgen
 $[BE]$ ve $[DE]$
 dış açıortay
 $m(\widehat{BCD}) = 140^\circ$
 $m(\widehat{FAK}) = 50^\circ$

Yukarıda verilenlere göre, $m(\widehat{BED}) = x$ kaç derecedir?

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

7.

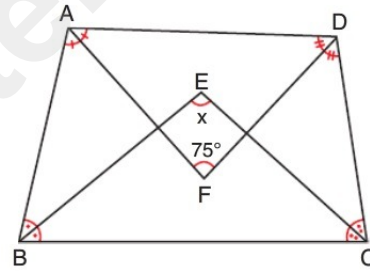


ABCD dörtgen
 $[AE]$ ve $[DE]$ açıortay
 $m(\widehat{ABC}) = 52^\circ$
 $m(\widehat{AED}) = 47^\circ$

Yukarıda verilenlere göre, $m(\widehat{BCD}) = x$ kaç derecedir?

- A) 32 B) 35 C) 38 D) 42 E) 47

8.

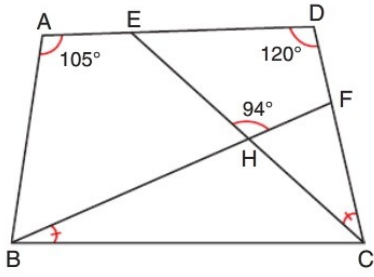


ABCD dörtgen
 $[AF]$, $[BE]$, $[CE]$ ve
 $[DF]$ açıortay
 $m(\widehat{AFD}) = 75^\circ$

Yukarıda verilenlere göre, $m(\widehat{BEC}) = x$ kaç derecedir?

- A) 85 B) 90 C) 95 D) 100 E) 105

9.

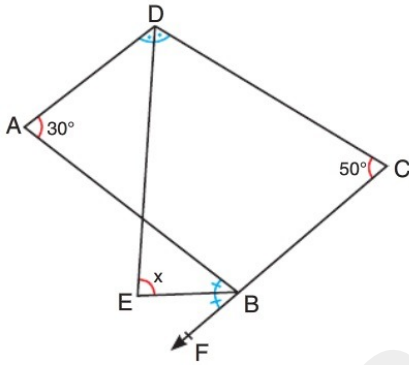


ABCD dörtgen
 $m(\widehat{FBC}) = m(\widehat{ECD})$
 $m(\widehat{BAD}) = 105^\circ$
 $m(\widehat{ADC}) = 120^\circ$
 $m(\widehat{EHF}) = 94^\circ$
 $[BF] \cap [CE] = \{H\}$

Yukarıda verilenlere göre, $m(\widehat{ABC})$ kaç derecedir?

- A) 40 B) 45 C) 49 D) 54 E) 61

10.

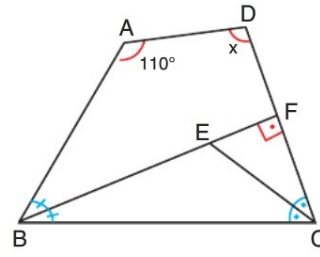


ABCD dörtgen
 $[DE]$ ve $[BE]$
 açkırtay
 $m(\widehat{BAD}) = 30^\circ$
 $m(\widehat{DCF}) = 50^\circ$

Yukarıda verilenlere göre, $m(\widehat{DEB}) = x$ derecedir?

- A) 90 B) 80 C) 70 D) 60 E) 50

11.

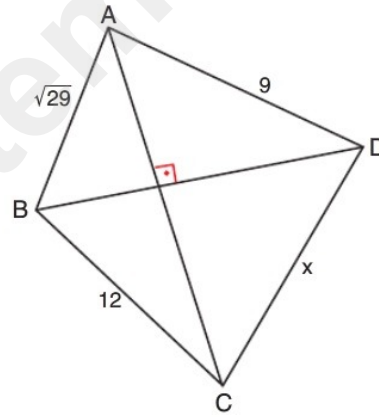


ABCD dörtgen
 $[BF]$ ve $[CE]$ açkırtay
 $[BF] \perp [CD]$
 $|BE| = 2|EF|$
 $m(\widehat{BAD}) = 110^\circ$

Yukarıda verilenlere göre, $m(\widehat{ADC}) = x$ kaç derecedir?

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

12.

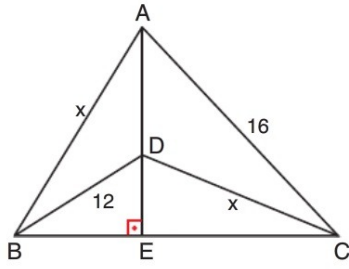


ABCD dörtgen
 $[AC] \perp [BD]$
 $|AD| = 9$ br
 $|BC| = 12$ br
 $|AB| = \sqrt{29}$ br

Yukarıda verilenlere göre, $|CD| = x$ kaç birimdir?

- A) $10\sqrt{2}$ B) 14 C) $6\sqrt{5}$ D) 13 E) $4\sqrt{10}$

13.

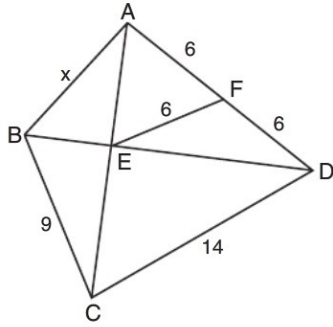


ABC üçgen
 $[AE] \perp [BC]$
 $|BD| = 12 \text{ cm}$
 $|AC| = 16 \text{ cm}$

Yukarıda verilenlere göre, $|AB| = |CD| = x$ kaç cm'dir?

- A) 13 B) $6\sqrt{5}$ C) 14 D) $10\sqrt{2}$ E) 15

14.

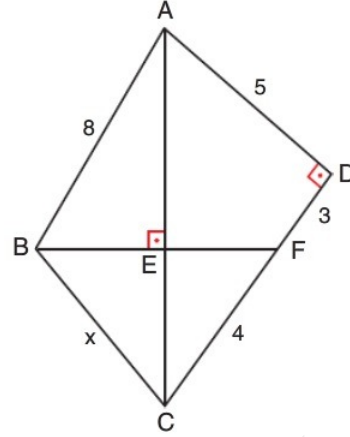


ABCD dörtgen
 $|BC| = 9 \text{ cm}$
 $|CD| = 14 \text{ cm}$
 $|AF| = |FD| = |EF| = 6 \text{ cm}$
 $[AC] \cap [BD] = \{E\}$

Yukarıda verilenlere göre, $|AB| = x$ kaç cm'dir?

- A) $2\sqrt{6}$ B) 5 C) $\sqrt{29}$ D) $4\sqrt{2}$ E) 6

15.

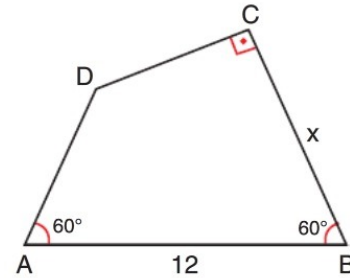


ABCD dörtgen
 $[AC] \perp [BD]$
 $[AD] \perp [CD]$
 $|AB| = 8 \text{ cm}$
 $|CF| = 4 \text{ cm}$
 $|FD| = 3 \text{ cm}$
 $|AD| = 5 \text{ cm}$

Yukarıda verilenlere göre, $|BC| = x$ kaç cm'dir?

- A) $4\sqrt{2}$ B) 6 C) $2\sqrt{10}$ D) $\sqrt{46}$ E) $4\sqrt{3}$

16.

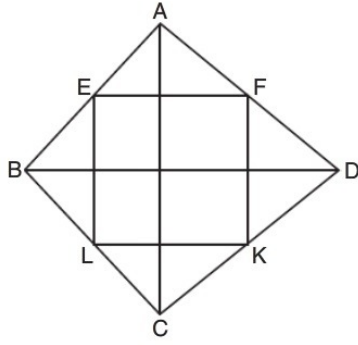


ABCD dörtgen
 $[DC] \perp [CB]$
 $m(\widehat{DAB}) = 60^\circ$
 $m(\widehat{ABC}) = 60^\circ$
 $|AB| = 12 \text{ cm}$
 $|AD| = 8 \text{ cm}$

Yukarıda verilenlere göre, $|BC| = x$ kaç cm'dir?

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

17.

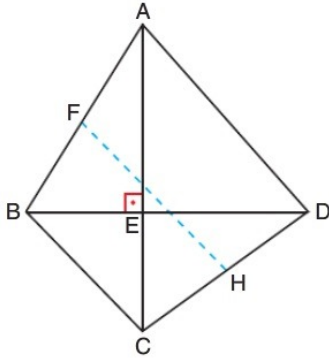


ABCD dörtgen
E, F, K ve L bulun-
dukları kenarların
orta noktaları
 $|AC| = 12$ br
 $|BD| = 16$ br

olduğuna göre, $\square(EFKL)$ kaç birimdir?

- A) 12 B) 16 C) 24 D) 28 E) 30

18.

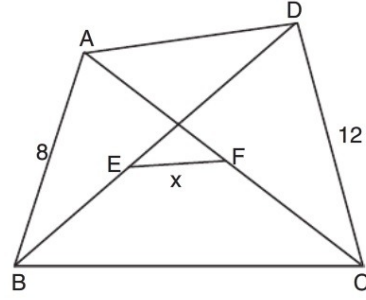


ABCD dörtgen
F ve H üzerinde bulun-
dukları kenarların orta
noktaları
 $[AC] \perp [BD]$
 $|BD| = 12$ cm
 $|AC| = 16$ cm

Yukarıda verilenlere göre, $|FH|$ kaç cm'dir?

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

19.

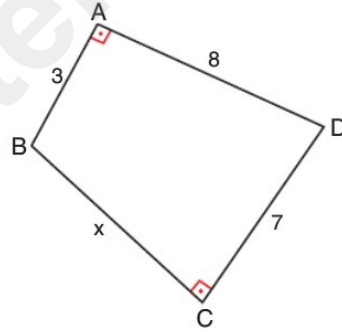


ABCD dörtgen
 $|BE| = |ED|$
 $|AF| = |FC|$
 $|AB| = 8$ cm
 $|DC| = 12$ cm

Yukarıda verilenlere göre, $|EF| = x$ kaç farklı tam sayı değeri alır?

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

20.

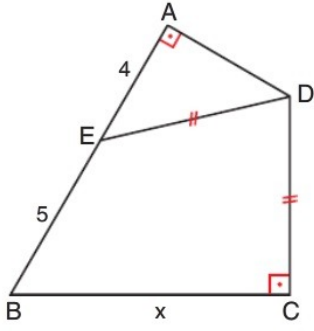


ABCD bir dörtgen
 $[BA] \perp [AD]$
 $[BC] \perp [CD]$
 $|AB| = 3$ br
 $|CD| = 7$ br
 $|AD| = 8$ br

Yukarıda verilenlere göre, $|BC| = x$ kaç birimdir?

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

21.



ABCD dörtgen

$[AB] \perp [AD]$

$[BC] \perp [DC]$

$|DE| = |DC|$

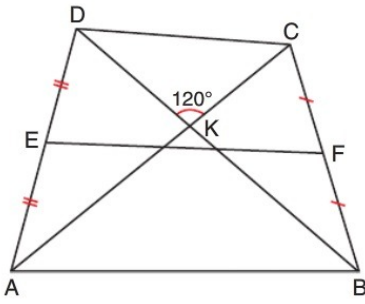
$|AE| = 4 \text{ cm}$

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

Yukarıda verilenlere göre, $|BC| = x$ kaç cm'dir?

- A) 7 B) $2\sqrt{15}$ C) 8 D) $\sqrt{65}$ E) $6\sqrt{2}$

22.



ABCD dörtgen

E ve F orta noktalar

$m(\widehat{DKC}) = 120^\circ$

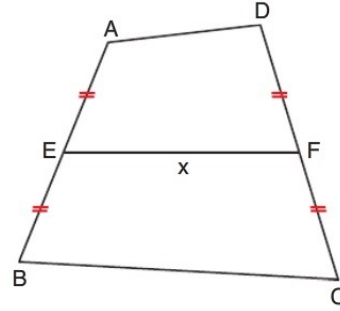
$|AC| = 12 \text{ br}$

$|DB| = 10 \text{ br}$

olduğuna göre, $|EF|$ kaç birimdir?

- A) $\sqrt{87}$ B) $\sqrt{91}$ C) $3\sqrt{10}$ D) $6\sqrt{3}$ E) $\sqrt{105}$

23.



ABCD dörtgen

E ve F orta nokta

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

$|BC| = 12 \text{ cm}$

Yukarıda verilenlere göre, $|EF| = x$ kaç farklı tam sayı değeri alır?

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

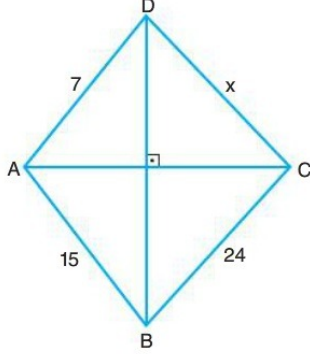


Ah Şu Matematik



10.Sınıf Matematik Dörtgende Uzunluk Konu Anlatımı ve Soru Çözümleri

1.



ABCD dörtgen

$$[AC] \perp [BD]$$

$$|AD| = 7 \text{ cm}$$

$$|AB| = 15 \text{ cm}$$

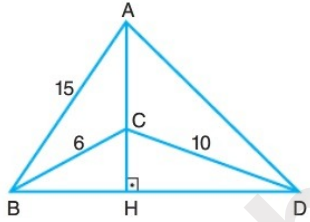
$$|BC| = 24 \text{ cm}$$

$$|CD| = x \text{ cm}$$

Yukarıdaki verilere göre, $|CD| = x$ kaç cm dir?

- A) 12 B) 14 C) 16 D) 18 E) 20

2.



$$[AH] \perp [BD]$$

$$|AB| = 15 \text{ cm}$$

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

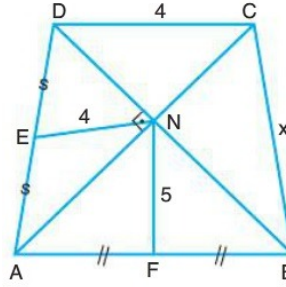
$$|CD| = 10 \text{ cm}$$

$$|AD| = x \text{ cm}$$

Yukarıdaki verilere göre, $|AD| = x$ kaç cm dir?

- A) 11 B) 13 C) 15 D) 17 E) 19

3.



ABCD bir dörtgen

$$[AC] \perp [BD]$$

$$|AF| = |FB|$$

$$|DE| = |EA|$$

$$|EN| = 4 \text{ cm}$$

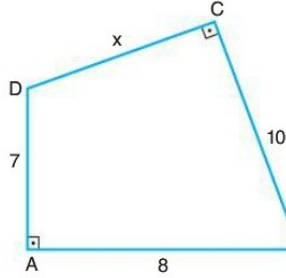
$$|NF| = 5 \text{ cm}$$

$$|DC| = 4 \text{ cm}$$

Yukarıdaki verilere göre, $|BC| = x$ kaç cm dir?

- A) 5 B) $5\sqrt{2}$ C) $2\sqrt{13}$ D) $\sqrt{33}$ E) 8

4.



ABCD bir dörtgen

$$[DC] \perp [BC]$$

$$[AD] \perp [AB]$$

$$|AD| = 7 \text{ cm}$$

$$|AB| = 8 \text{ cm}$$

$$|BC| = 10 \text{ cm}$$

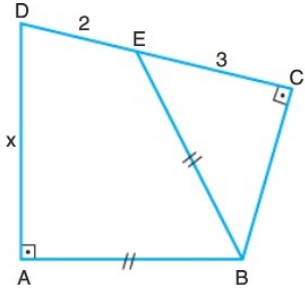
$$|DC| = x \text{ cm}$$

Yukarıdaki verilere göre, $|DC| = x$ kaç cm dir?

- A) $\sqrt{11}$ B) $2\sqrt{3}$ C) $\sqrt{13}$ D) $\sqrt{14}$ E) $\sqrt{15}$

DÖRTGENDE UZUNLUK KONU ANLATIMI VE SORU ÇÖZÜMÜ

5.



ABCD dörtgen

$$[AD] \perp [AB]$$

$$[BC] \perp [DC]$$

$$|AB| = |BE|$$

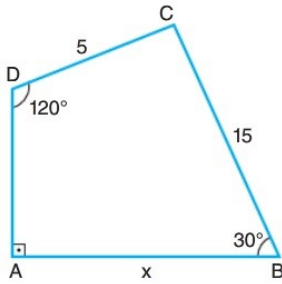
$$|CE| = 3 \text{ cm}$$

$$|DE| = 2 \text{ cm}$$

Yukarıdaki verilere göre, $|AD| = x$ kaç cm dir?

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

6.



ABCD bir dörtgen

$$[AD] \perp [AB]$$

$$m(\widehat{ADC}) = 120^\circ$$

$$m(\widehat{ABC}) = 30^\circ$$

$$|BC| = 15 \text{ cm}$$

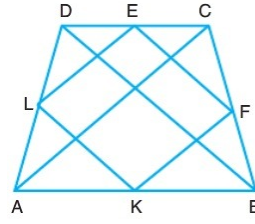
$$|DC| = 5 \text{ cm}$$

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

Yukarıdaki verilere göre, x kaç cm dir?

- A) $5\sqrt{3}$ B) $6\sqrt{3}$ C) 10 D) $10\sqrt{3}$ E) 20

7.



ABCD bir dörtgen

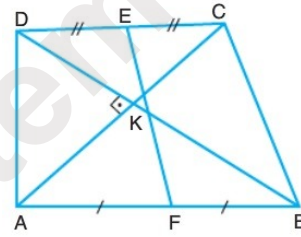
E, F, K ve L bulundukları kenarların orta noktaları

$$|AC| + |BD| = 20 \text{ cm}$$

Yukarıdaki verilere göre, $\text{Ç}(\text{EFKL})$ kaç cm dir?

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

8.



ABCD bir dörtgen

$$[AC] \perp [BD]$$

$$|DE| = |EC|$$

$$|AF| = |FB|$$

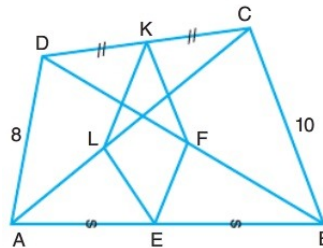
$$|AC| = 8 \text{ cm}$$

$$|BD| = 6 \text{ cm}$$

Yukarıdaki verilere göre, $|EF|$ kaç cm dir?

- A) 5 B) 7 C) 10 D) 12 E) 13

9.



ABCD bir dörtgen

$[AC]$ ve $[BD]$ köşegen

$$|DK| = |KC|$$

$$|AE| = |BE|$$

$$|BF| = |FD|$$

$$|AL| = |CL|$$

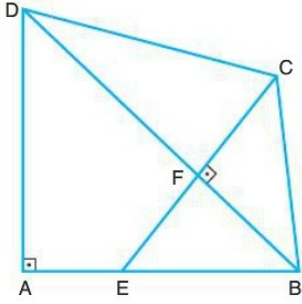
$$|AD| = 8 \text{ cm}$$

$$|BC| = 10 \text{ cm}$$

Yukarıdaki verilere göre, $\text{Ç}(\text{EFKL})$ kaç cm dir?

- A) 9 B) 18 C) 27 D) 30 E) 36

10.

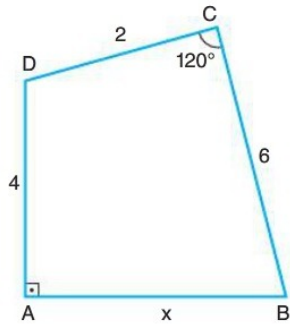


ABCD dörtgen
 $[BD] \perp [CE]$
 $[AD] \perp [AB]$
 $2|AE| = |BC| = 4 \text{ cm}$
 $|BE| = 3 \text{ cm}$
 $|AD| = 5 \text{ cm}$

Yukarıdaki verilere göre, $|CD|$ kaç cm dir?

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

11.

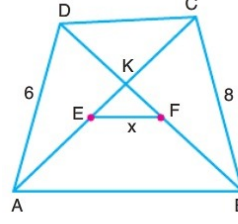


ABCD dörtgen
 $[AD] \perp [AB]$
 $m(\widehat{BCD}) = 120^\circ$
 $|CD| = 2 \text{ cm}$
 $|AD| = 4 \text{ cm}$
 $|BC| = 6 \text{ cm}$
 $|AB| = x \text{ cm}$

Yukarıdaki verilere göre, x kaç cm dir?

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

12.



ABCD dörtgen
 $|AE| = |EC|$
 $|DF| = |BF|$
 $|BC| = 8 \text{ cm}$
 $|AD| = 6 \text{ cm}$
 $|EF| = x \text{ cm}$

Yukarıdaki verilere göre, x'in alabileceği kaç farklı tam sayı değeri vardır?

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

