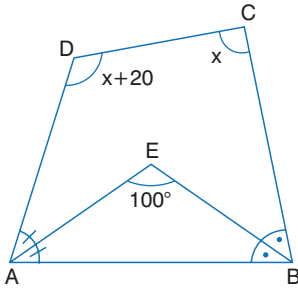


1.



ABCD dörtgen
[AE] ve [BE]
açıortay
 $m(\widehat{ADC}) = x+20$
 $m(\widehat{BCD}) = x$
 $m(\widehat{AEB}) = 100^\circ$

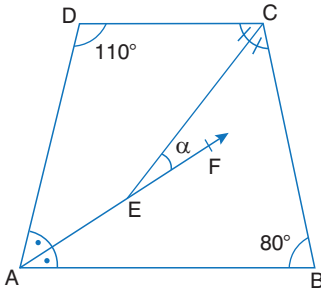
Yukarıdaki verilere göre, x kaçtır?

- A) 80 B) 85 C) 90 D) 95 E) 100

$$100 = \frac{x+20+x}{2} \quad 200 = 2x+20$$

$$x = 90$$

2.



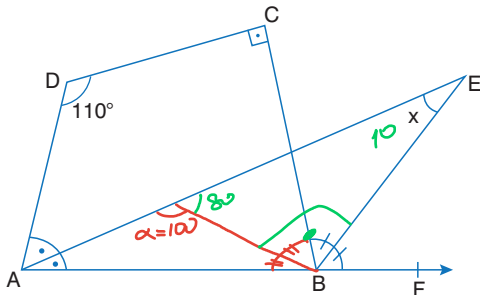
ABCD dörtgen
[AF] ve [CE]
açıortay
 $m(\widehat{ADC}) = 110^\circ$
 $m(\widehat{ABC}) = 80^\circ$

Yukarıdaki verilere göre, $m(\widehat{CEF}) = \alpha$ kaçtır?

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

$$\alpha = \frac{110 - 80}{2} = \frac{30}{2} = 15$$

3.

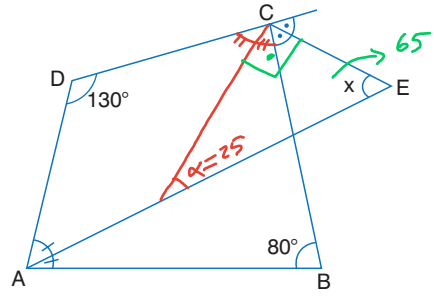


Yukarıdaki şekilde verilere göre, x kaçtır?

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

$$\alpha = \frac{110 + 90}{2} = 100$$

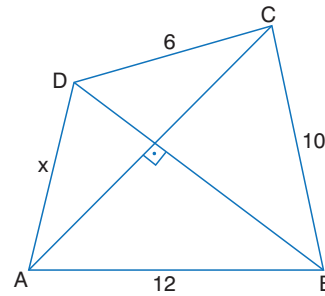
4.

Şekilde verilen açı ölçülerine göre, $m(\widehat{AEC}) = x$ kaç derecedir?

- A) 35 B) 45 C) 55 D) 65 E) 75

$$\alpha = \frac{130 - 80}{2} = 25$$

5.



ABCD dörtgen
[AC] \perp [BD]
|DC| = 6 cm
|BC| = 10 cm
|AB| = 12 cm

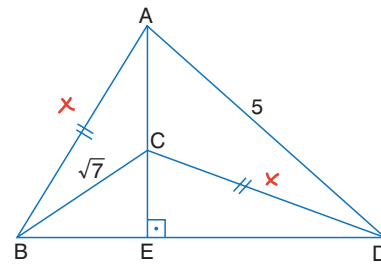
Yukarıdaki verilere göre, |AD| = x kaç cm'dir?

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

$$x^2 + 10^2 = 12^2 + 6^2$$

$$x = 4\sqrt{5}$$

6.



ABCD dörtgen
[AE] \perp [BD]
|BC| = $\sqrt{7}$ cm
|AD| = 5 cm

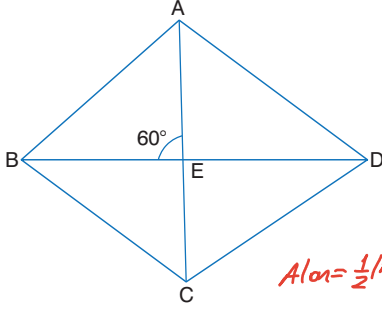
Yukarıdaki verilere göre, |AB| = |CD| kaç cm'dir?

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

$$x^2 + x^2 = (\sqrt{7})^2 + 5^2$$

$$x = 4$$

7.



ABCD dörtgen
 $m(\widehat{AEB})=60^\circ$
 $|AC|=12\text{ cm}$
 $|BD|=10\text{ cm}$

$$A_{\text{ort}} = \frac{1}{2} |AC| \cdot |BD| \cdot \sin \alpha$$

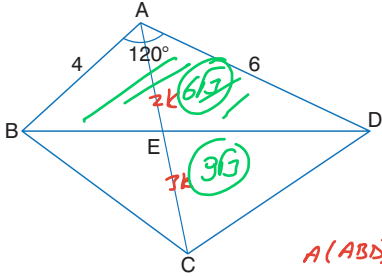
$$A_{\text{ort}} = \frac{1}{2} \cdot 10 \cdot 12 \cdot \frac{\sqrt{3}}{2} = 30\sqrt{3}$$

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

Yukarıdaki verilere göre, $A(ABCD)$ kaç cm^2 'dir?

- A) $15\sqrt{3}$ B) 20 C) 30 **D) $30\sqrt{3}$** E) 60

8.



ABCD dörtgen
 $m(\widehat{BAD})=120^\circ$
 $|AB|=4\text{ cm}$
 $|AD|=6\text{ cm}$
 $3|AE|=2|EC|$

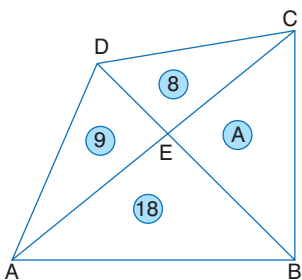
$$A(ABD) = \frac{1}{2} \cdot 4 \cdot 6 \cdot \frac{\sqrt{3}}{2} = 6\sqrt{3}$$

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

Yukarıdaki verilere göre, $A(ABCD)$ kaç cm^2 'dir?

- A) $9\sqrt{3}$ B) $12\sqrt{3}$ **C) $15\sqrt{3}$** E) $20\sqrt{3}$
 D) $18\sqrt{3}$

9.



ABCD dörtgen
 $[AC] \cap [BD] = \{E\}$
 $A(DEC)=8\text{ cm}^2$
 $A(ADE)=9\text{ cm}^2$
 $A(ABE)=18\text{ cm}^2$
 $A(BCE)=A\text{ cm}^2$

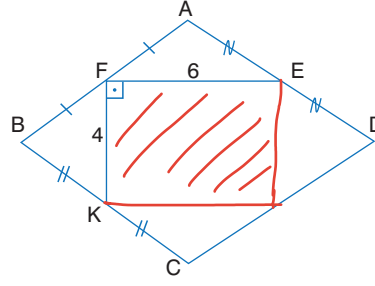
Yukarıdaki verilere göre, A kaçtır?

- A) 17 **B) 16** C) 15 D) 14 E) 12

$$9 \times A = 8 \times 18$$

$$A = 16$$

10.



ABCD dörtgen
 E, F, K bulundukları kenarların orta noktaları
 $[EF] \perp [FK]$
 $|EF|=6\text{ cm}$
 $|FK|=4\text{ cm}$

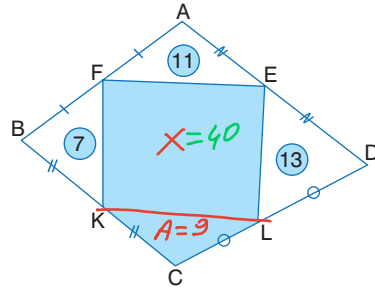
Yukarıdaki verilere göre, $A(ABCD)$ kaç cm^2 'dir?

- A) 12 B) 18 C) 24 D) 36 **E) 48**

$$\text{Taralı } A_{\text{ort}} = 6 \times 4 = 24$$

$$A(ABCD) = 2 \cdot 24 = 48$$

11.



ABCD dörtgen
 E, F, K, L orta noktalar
 $A(\widehat{BFK})=7\text{ cm}^2$
 $A(\widehat{AFE})=11\text{ cm}^2$
 $A(\widehat{DEL})=13\text{ cm}^2$

Yukarıdaki verilere göre, taralı alan kaç cm^2 'dir?

- A) 31 B) 39 C) 45 **D) 49** E) 51

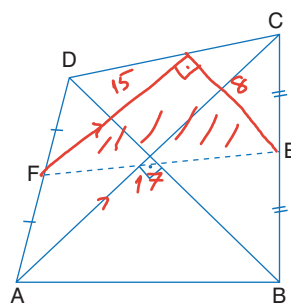
$$11 + A = 7 + 13$$

$$A = 9$$

$$X = 7 + 9 + 11 + 13$$

$$X = 40$$

12.



$[AC] \perp [BD]$
 $|BD|=16\text{ cm}$
 $|AC|=30\text{ cm}$

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

- A) 10 B) 13 C) 15 **D) 17** E) 20