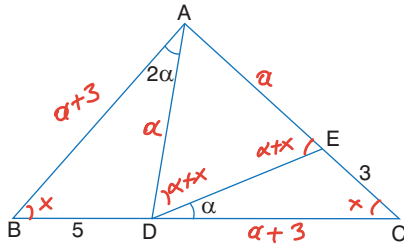


1.



ABC üçgen
|BD|=5cm
|EC|=3cm

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

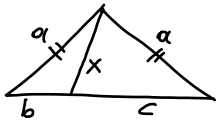
$$|AB| = |AC| = |DC|$$

$$a^2 = (a+3) \cdot (a+3) - 5 \cdot (a+3)$$

$$a = 6 \quad G = 32$$

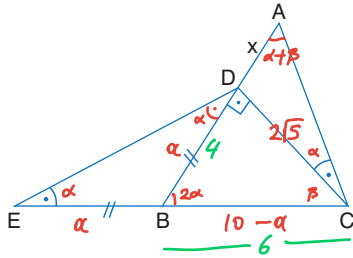
Buna göre, $\angle(ABC)$ kaç cm'dir?

- A) 24 B) 28 C) 30 D) 32 E) 36



$$x^2 = a \cdot a - b \cdot c$$

2.



ABC ve DEC
birer üçgen
|BD|=|EB|
|EC|=10cm
|DC|=2√5cm

$$m(\widehat{ACD}) = m(\widehat{DEC})$$

Buna göre, |AD|=x kaç cm'dir?

- A) 2 B) √5 C) 2√2 D) 3 E) √10

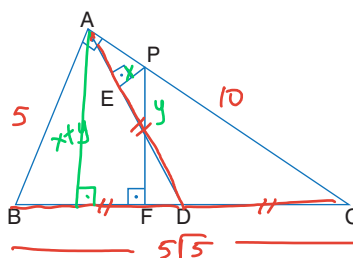
$$(10-a)^2 = a^2 + 2\sqrt{5}^2$$

$$a = 4$$

$$x+4=6$$

$$x=2$$

3.



ABC dik üçgen
[PE]⊥[AD]
[PF]⊥[BC]
|BD|=|DC|
|AB|=5cm
|AC|=10cm

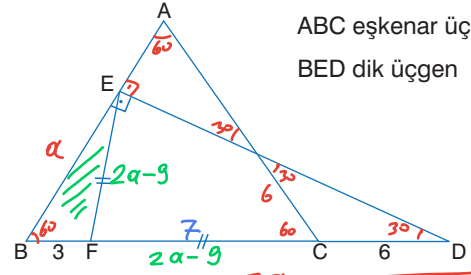
Buna göre, |PE|+|PF| kaç cm'dir?

- A) √5 B) √10 C) 4 D) 3√2 E) 2√5

$$5\sqrt{5} \cdot (x+y) = 5 \cdot 10$$

$$x+y = 2\sqrt{5}$$

4.



ABC eşkenar üçgen
BED dik üçgen

$$|EF| = |FC|$$

$$|BF| = 3cm$$

$$|CD| = 6cm$$

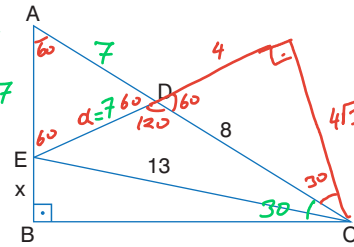
Buna göre, $\angle(ABC)$ kaç cm'dir?

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

$$\text{Kosinüs Teoremi: } (2a-9)^2 = 3^2 + a^2 - 2 \cdot 3 \cdot a \cdot \frac{1}{2}$$

$$a = 8$$

5.



ABC dik üçgen
ADE eşkenar üçgen
|EC|=13cm
|DC|=8cm

Buna göre, |EB|=x kaç cm'dir?

- A) 1/5 B) 1/2 C) 1 D) 5/2 E) 2

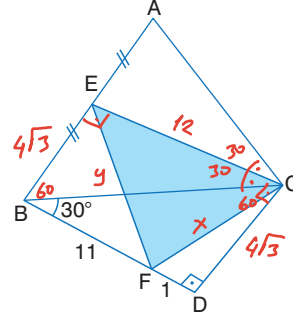
$$1) 13^2 = (a+4)^2 + 4\sqrt{3}^2$$

$$a = 7$$

$$2) x+7 = \frac{15}{2}$$

$$x = \frac{1}{2}$$

6.



ADC eşkenar üçgen
[BD]⊥[DC]
 $m(\widehat{DBC}) = 30^\circ$
|AE|=|EB|
|BF|=11cm
|FD|=1cm

$$x^2 = 1^2 + 4\sqrt{3}^2 \quad x = 7$$

$$y^2 = 11^2 + 4\sqrt{3}^2 \quad y = 13$$

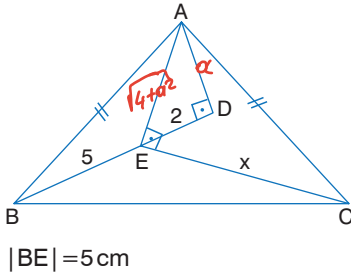
Buna göre, $\angle(CEF)$ kaç cm'dir?

- A) 24 B) 28 C) 30 D) 32 E) 35

$$G = 7+13+12$$

$$G = 32$$

7.



ABC ikizkenar
üçgen
[AD] ⊥ [BD]
[AE] ⊥ [EC]
|AB| = |AC|
|ED| = 2 cm

Buna göre, |EC| = x kaç cm'dir?

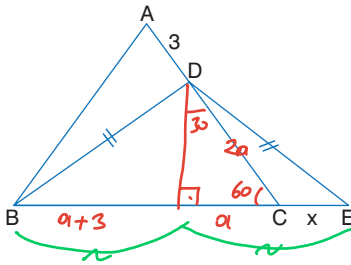
- A) $\sqrt{29}$ B) 6 C) $2\sqrt{10}$ D) $3\sqrt{5}$ E) 7

$$7^2 + 0^2 = x^2 + 4 + \alpha^2$$

$$x^2 = 45$$

$$x = 3\sqrt{5}$$

8.



$\widehat{ABC}$ eşkenar üç-
gen
DBE ikizkenar
üçgen
|AD| = 3 cm

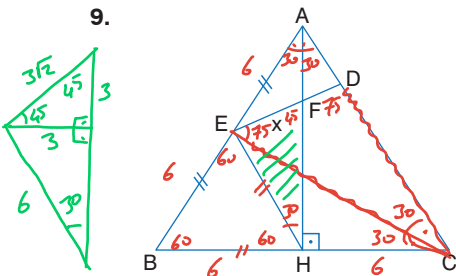
Buna göre, |EC| = x kaç cm'dir?

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

$$a + x = a + 3$$

$$x = 3$$

9.

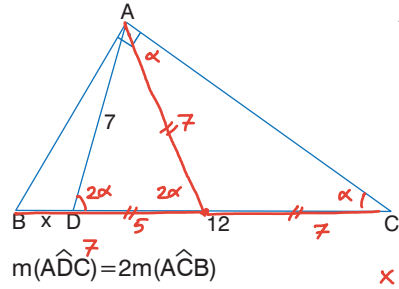


$\widehat{ABC}$ eşkenar
[AH] ⊥ [BC]
|DC| = |AH|
Ç(ABC) = 36 cm

Buna göre, |EF| = x kaç cm'dir?

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

10.



ABC dik üçgen
[AB] ⊥ [AC]
|AD| = 7 cm
|DC| = 12 cm

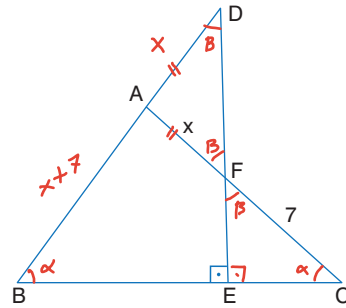
Buna göre, |BD| = x kaç cm'dir?

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

$$x + 5 = 7$$

$$x = 2$$

11.



$\widehat{ABC}$ ikizkenar
BED dik üçgen
|AB| = |AC|
[DE] ⊥ [BC]
|BD| = 23 cm
|FC| = 7 cm

Buna göre, |AF| = x kaç cm'dir?

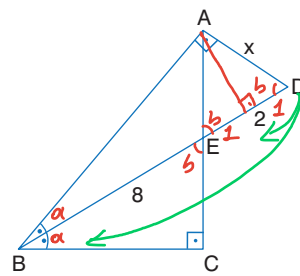
- A) 6 B) 7 C) 8 D) 9 E) 10

$$2x + 7 = 23$$

$$2x = 16$$

$$x = 8$$

12.



[AB] ⊥ [AD]
[AC] ⊥ [BC]
 $m(\widehat{ABD}) = m(\widehat{DBC})$
|ED| = 2 cm
|BE| = 8 cm

Buna göre, |AD| = x kaç cm'dir?

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

$$x^2 = 1 \cdot 10$$

$$x = \sqrt{10}$$