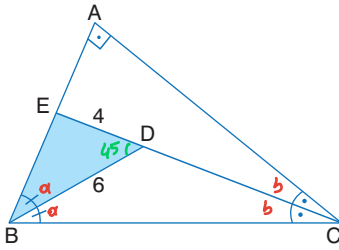


1.



ABC dik üçgen
[CE] ve [BD]
açıortay
|ED| = 4 cm
|BD| = 6 cm

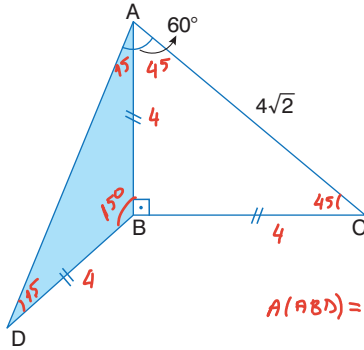
Yukarıdaki verilere göre, $A(\widehat{BDE})$ kaç cm^2 'dir?

- A) $4\sqrt{2}$ B) 6 C) $6\sqrt{2}$ D) $8\sqrt{2}$ E) 12

1) $2a + 2b = 90$
 $a + b = 45$

2) $A(\widehat{BDE}) = \frac{1}{2} \cdot 4 \cdot 6 \cdot \sin 45$
 $\frac{1}{2} \cdot 24 \cdot \frac{\sqrt{2}}{2} = 6\sqrt{2}$

2.



[AB] $\perp$ [BC]
 $m(\widehat{DAC}) = 60^\circ$
|AC| = $4\sqrt{2}$

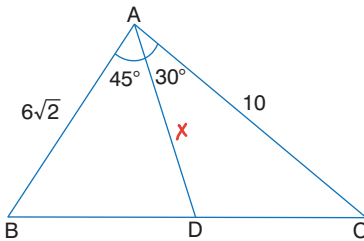
$A(\widehat{ABD}) = \frac{1}{2} \cdot 4 \cdot 4 \cdot \sin 150$
 $\frac{1}{2} \cdot 16 \cdot \frac{1}{2} = 4$

|AB| = |BC| = |BD|

Yukarıdaki verilere göre, $A(\widehat{ABD})$ kaç cm^2 'dir?

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

3.



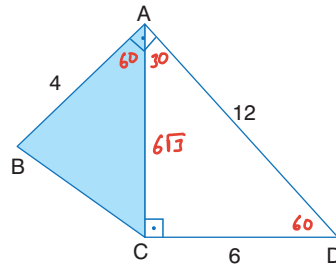
ABC üçgen
 $m(\widehat{BAD}) = 45^\circ$
 $m(\widehat{DAC}) = 30^\circ$
|AB| = $6\sqrt{2}$ cm
|AC| = 10 cm

Yukarıdaki verilere göre, $\frac{A(\widehat{ABD})}{A(\widehat{ADC})}$ oranı kaçtır?

- A) $\frac{3\sqrt{2}}{5}$ B) $\frac{4}{5}$ C) 1 D) $\frac{6}{5}$ E) $\frac{8}{5}$

$A(\widehat{ABD}) = \frac{1}{2} \cdot 6\sqrt{2} \cdot x \cdot \sin 45$
 $A(\widehat{ADC}) = \frac{1}{2} \cdot 10 \cdot x \cdot \sin 30$
 $\frac{A(\widehat{ABD})}{A(\widehat{ADC})} = \frac{6\sqrt{2} \cdot \frac{\sqrt{2}}{2}}{10 \cdot \frac{1}{2}} = \frac{6}{5}$

4.



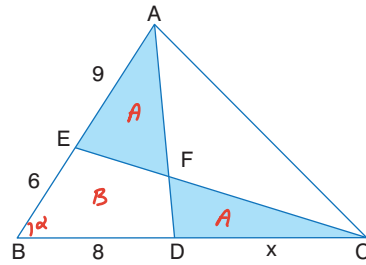
[AB] $\perp$ [AD]
[AC] $\perp$ [CD]
|AD| = 12 cm
|CD| = 6 cm
|AB| = 4 cm

Yukarıdaki verilere göre, $A(\widehat{ABC})$ kaç cm^2 'dir?

- A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) 12 D) $8\sqrt{3}$ E) 18

$A(\widehat{ABC}) = \frac{1}{2} \cdot 4 \cdot 6\sqrt{3} \cdot \frac{\sqrt{3}}{2} (\sin 60) = 18$

5.



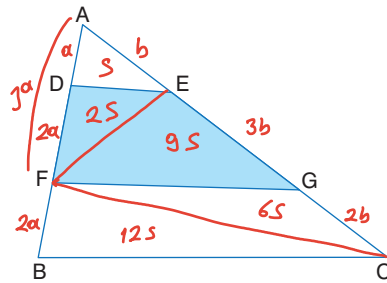
ABC üçgen
[AD] $\cap$ [CE] = {F}
|AE| = 9 cm
|EB| = 6 cm
|BD| = 8 cm

Yukarıdaki şekilde taralı alanlar eşit olduğuna göre, |DC| = x kaç cm'dir?

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

$A(\widehat{ABD}) = A(\widehat{BCE}) = A + B$
 $\frac{1}{2} \cdot 9 \cdot 8 \cdot \sin \alpha = \frac{1}{2} \cdot 6 \cdot (8+x) \cdot \sin \alpha$
 $x = 12$

6.



ABC üçgen
 $A(\widehat{ABC}) = 30 \text{ cm}^2$

$3\alpha \rightarrow 18^\circ$ ise
 $2\alpha \rightarrow 12^\circ$ olur.

|BF| = |DF| = 2|AD|

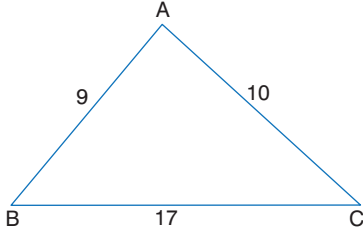
2|EG| = 3|GC| = 6|AE|

$30S = 30$
 $S = 1$
 $11S = 11$

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

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

7.



$|AB| = 9 \text{ cm}$
 $|AC| = 10 \text{ cm}$
 $|BC| = 17 \text{ cm}$

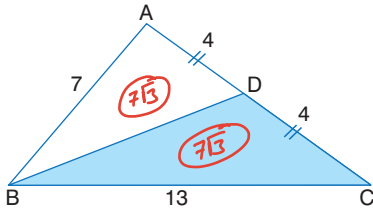
Yukarıdaki verilere göre, $A(\widehat{ABC})$ kaç cm^2 'dir?

- A) 20 B) 24 C) 30 D) 36 E) 45

$$U = \frac{9+10+17}{2} = 18$$

$$A = \sqrt{18(18-9)(18-10)(18-17)} = 36$$

8.



ABC üçgen
 $|AB| = 7 \text{ cm}$
 $|BC| = 13 \text{ cm}$

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

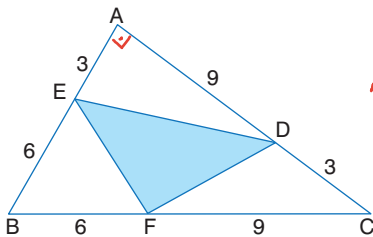
Yukarıdaki verilere göre, $A(\widehat{BDC})$ kaç cm^2 'dir?

- A) $7\sqrt{3}$ B) 12 C) 14 D) $6\sqrt{5}$ E) $8\sqrt{6}$

$$U = \frac{7+8+13}{2} = 14$$

$$A = \sqrt{14(14-7)(14-8)(14-13)} = 14\sqrt{3}$$

9.



ABC üçgen

$$A(ABC) = \frac{9 \cdot 12}{2} = 54$$

$|AE| = |DC| = 3 \text{ cm}$

$|BE| = |BF| = 6 \text{ cm}$

$|AD| = |FC| = 9 \text{ cm}$

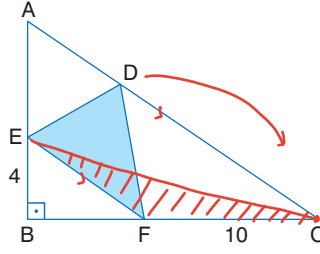
Yukarıdaki verilere göre, $A(\widehat{DEF})$ kaç cm^2 'dir?

- A) 12 B) 15 C) 18 D) 20 E) 24

$$\frac{T.A}{54} = \frac{3 \cdot 6 \cdot 3 + 6 \cdot 3 \cdot 9}{9 \cdot 15 \cdot 12}$$

$$T.A = 18$$

10.



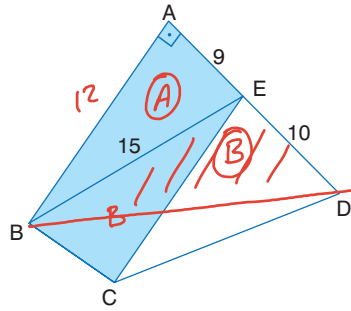
ABC dik üçgen
 $[AC] \parallel [EF]$
 $|BE| = 4 \text{ cm}$
 $|FC| = 10 \text{ cm}$

Yukarıdaki verilere göre, $A(\widehat{DEF})$ kaç cm^2 'dir?

- A) 16 B) 20 C) 22 D) 24 E) 28

$$A(DEF) = A(EFC) = \frac{10 \cdot 4}{2} = 20$$

11.



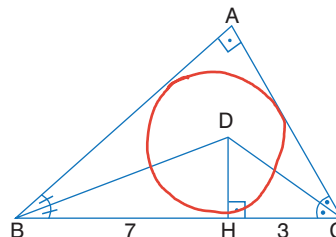
$[AB] \perp [AD]$
 $[BE] \parallel [DC]$
 $|AE| = 9 \text{ cm}$
 $|DE| = 10 \text{ cm}$
 $|BE| = 15 \text{ cm}$

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

- A) 106 B) 108 C) 110 D) 112 E) 114

$$(A+B) = \frac{12 \cdot 19}{2} = 114$$

12.



ABC dik üçgen
 $[BD]$ ve $[CD]$
 açıortay
 $[DH] \perp [BC]$
 $|BH| = 7 \text{ cm}$
 $|HC| = 3 \text{ cm}$

Yukarıdaki verilere göre, $A(\widehat{ABC})$ kaç cm^2 'dir?

- A) 20 B) 21 C) 22 D) 23 E) 24

$$A(ABC) = 7 \cdot 3 = 21$$

7-D 8-A 9-C

10-B 11-E 12-B