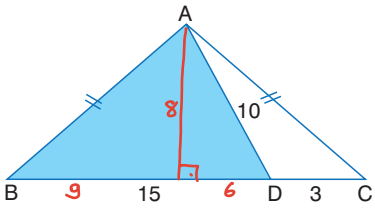
1.



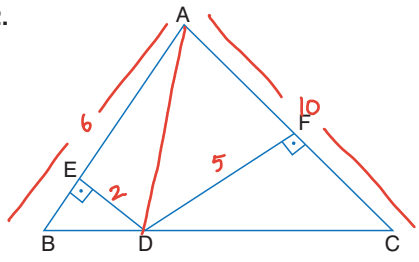
ABC üçgen
$|AB| = |AC|$
$|AD| = 10\,cm$
$|BD| = 15\,cm$
$|DC| = 3\,cm$

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

A) 45 B) 50 C) 54 D) 60 E) 75

$A(ABD) = \frac{15 \cdot 8}{2} = 60$

2.



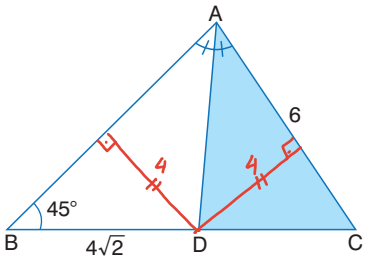
ABC üçgen
$[DE] \perp [AB]$
$[DF] \perp [AC]$
$|AB| = 6\,cm$
$|AC| = 10\,cm$
$|DE| = 2\,cm$
$|DF| = 5\,cm$

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

A) 27 B) 31 C) 33 D) 36 E) 39

$A(ABD) = \frac{6 \cdot 2}{2} = 6$
$A(ADC) = \frac{10 \cdot 5}{2} = 25$
$A(ABC) = 6 + 25 = 31$

3.



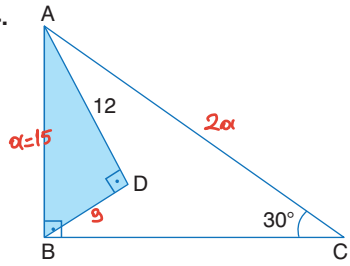
$[AD]$, $\widehat{ABC}$'nin açıortayı
$m(\widehat{ABC}) = 45°$
$|BD| = 4\sqrt{2}\,cm$
$|AC| = 6\,cm$

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

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

$A(ADC) = \frac{6 \cdot 4}{2} = 12$

4.



$[AB] \perp [BC]$
$[AD] \perp [BD]$
$m(\widehat{ACB}) = 30°$
$|AB| + |AC| = 45\,cm$
$|AD| = 12\,cm$

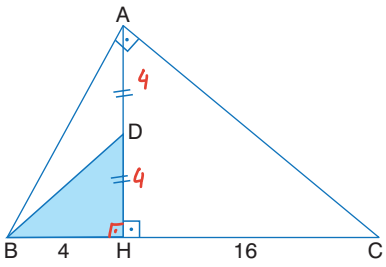
$a + 2a = 45$
$a = 15$

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

A) 30 B) 36 C) 48 D) 50 E) 54

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

5.



ABC dik üçgen
$[AH] \perp [BC]$
$|AD| = |DH|$
$|BH| = 4\,cm$
$|HC| = 16\,cm$

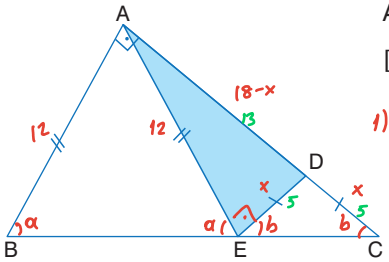
Yukarıdaki verilere göre, $A(\widehat{BDH})$ kaç cm^2'dir?

A) 6 B) 8 C) 10 D) 12 E) 16

Öklitten; $h^2 = p \cdot k \Rightarrow |AH|^2 = 4 \cdot 16$
$|AH| = 8$

$A(BDH) = \frac{4 \cdot 4}{2} = 8$

6.



ABC dik üçgen
$[AB] \perp [AC]$

1) $a + b = 90$ ise; $m(\widehat{AED}) = 90°$ dir.

2) $(18-x)^2 = x^2 + 12^2$
$x = 5$

3) $A(ADE) = \frac{5 \cdot 12}{2} = 30$

$|AB| = |AE| = 12\,cm$
$|AC| = 18\,cm$
$|DE| = |DC|$

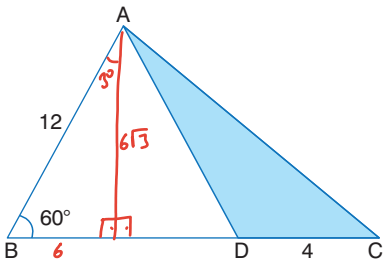
Yukarıdaki verilere göre, $A(\widehat{AED})$ kaç cm^2'dir?

A) 18 B) 24 C) 30 D) 36 E) 48

1-D	2-B	3-C

4-E	5-B	6-C

7.



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

$|AB| = 12\,cm$

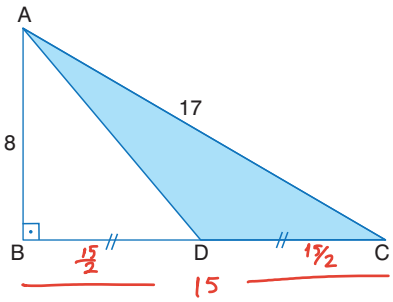
$|DC| = 4\,cm$

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

A) 12 B) $8\sqrt{3}$ C) $10\sqrt{3}$ D) $12\sqrt{3}$ E) 16

$A(ADC) = \frac{4 \cdot 6\sqrt{3}}{2} = 12\sqrt{3}$

8.



ABC dik üçgen

$|AC| = 17\,cm$

$|AB| = 8\,cm$

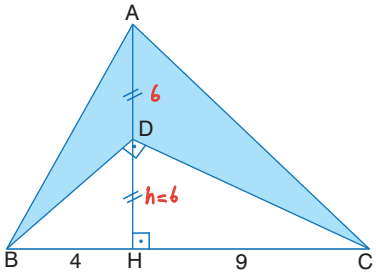
$|BD| = |DC|$

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

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

$A(ADC) = \frac{\frac{15}{2} \cdot 8}{2} = 30$

9.



ABC üçgen

$[AH] \perp [BC]$

$[BD] \perp [DC]$

$|AD| = |DH|$

$|BH| = 4\,cm$

$|HC| = 9\,cm$

Yukarıdaki verilere göre, taralı alan A(ABDC) kaç cm^2'dir?

A) 33 B) 36 C) 39 D) 42 E) 45

1) $h^2 = p \cdot k$

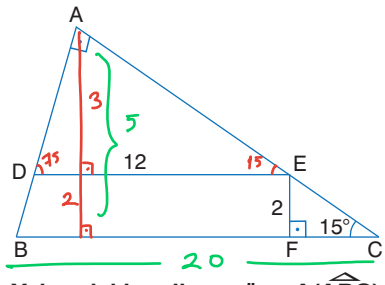
$h^2 = 4 \cdot 9$

$h = 6$

2) $A(ABDC) = \frac{6 \cdot 13}{2} = 39$

7-D | 8-D | 9-C

10.



ABC dik üçgen

$[EF] \perp [BC]$

$[DE] // [BC]$

$m(\widehat{ACB}) = 15^\circ$

$|DE| = 12\,cm$

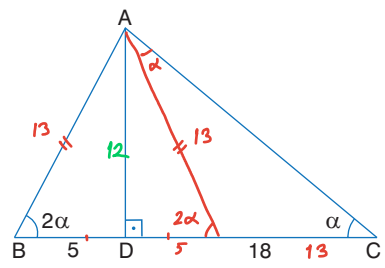
$|EF| = 2\,cm$

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

A) 50 B) 54 C) 60 D) 64 E) 72

$A(ABC) = \frac{20 \cdot 5}{2} = 50$

11.



ABC üçgen

$[AD] \perp [BC]$

$|BD| = 5\,cm$

$|DC| = 18\,cm$

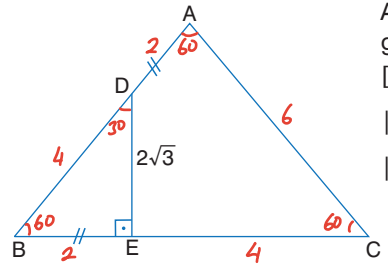
$m(\widehat{ABC}) = 2m(\widehat{ACB})$

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

A) 184 B) 138 C) 120 D) 115 E) 92

$A(ABC) = \frac{23 \cdot 12}{2} = 138$

12.



ABC eşkenar üçgen

$[DE] \perp [BC]$

$|AD| = |BE|$

$|DE| = 2\sqrt{3}\,cm$

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

A) $4\sqrt{3}$ B) $6\sqrt{3}$ C) $9\sqrt{3}$ D) $10\sqrt{3}$ E) $12\sqrt{3}$

$A(ABC) = \frac{a^2\sqrt{3}}{4} = \frac{6^2\sqrt{3}}{4} = 9\sqrt{3}$

10-A | 11-B | 12-C