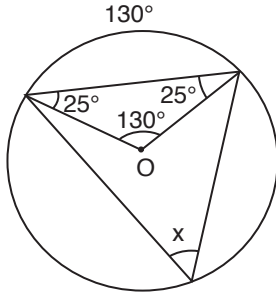


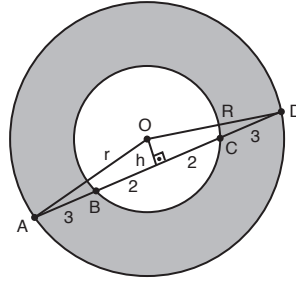
1.



O açısı merkez açı olup $\widehat{AB} = 130$ olur
x çevre açısı olduğundan $\frac{130}{2} = 65$ olur.

Cevap: C

3.



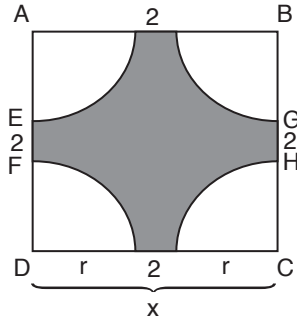
Merkezden krişeye indirilen dikme krişeyi iki eşit parçaya böler.

$$\begin{aligned} R^2 &= h^2 + 5^2 \\ - \quad r^2 &= h^2 + 2^2 \\ \hline R^2 - r^2 &= 21 \end{aligned}$$

Taralı alan $\pi \cdot R^2 - \pi \cdot r^2 = \pi(R^2 - r^2) = 21\pi$

Cevap: B

2.



$$x^2 = 196$$

$$x = 14 \Rightarrow r + 2 + r = 14$$

$$2r = 12$$

$$r = 6 \text{ olur.}$$

(Karenin Alanı) - (Dairenin alanı)

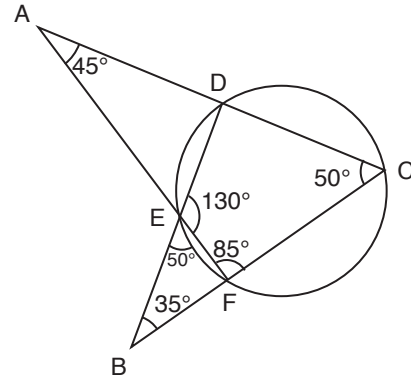
$$196 - \pi \cdot 6^2$$

$$196 - \pi \cdot 36$$

$$196 - 108 = 88$$

Cevap: B

4.



BDC üçgeninin iç açıları toplamı 180° olup $m(\widehat{BDC}) = 95^\circ$

$$\widehat{DF} = 100^\circ$$

$\widehat{DCF} = 260^\circ$ olup $m(\widehat{DEF}) = 130^\circ$ olur.

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

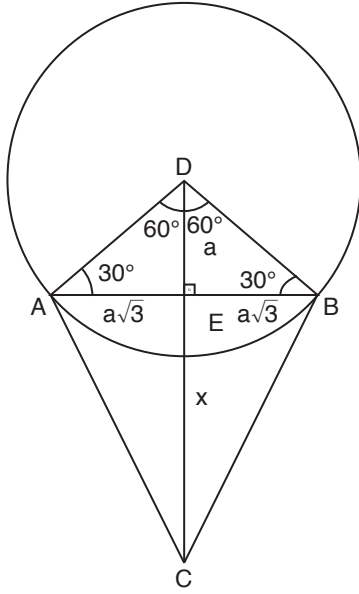
$$m(\widehat{ADE}) = 85^\circ$$

$$\widehat{A} + 50 + 85 = 180^\circ$$

$$\widehat{A} = 45^\circ$$

Cevap: D

5.



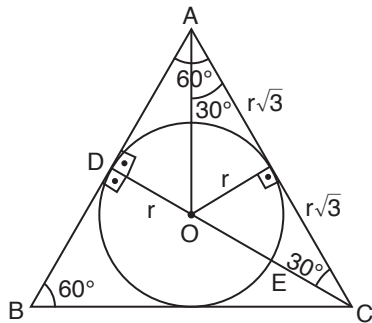
$$|EC| = x \text{ olsun}$$

$$a \cdot x = a\sqrt{3} \cdot a\sqrt{3}$$

$$x = 3a$$

6. $|AB| = |BC| = |CA| = 10 \text{ cm}$

$$|AD| = |BD|$$



O halde $|OC| = 2r$ 'dir.

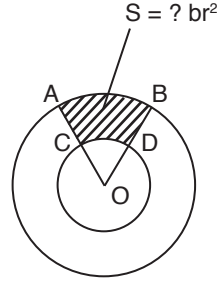
$$2r\sqrt{3} = 10$$

$$r = \frac{5\sqrt{3}}{3} \Rightarrow |EC| = x = r \text{ olduğundan}$$

$$x = \frac{5\sqrt{3}}{3} \text{ olur.}$$

Cevap: A

7.



$$|AO| = 2, |CO| = 1$$

$$|AO| = |BO|, |CO| = |DO|$$

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

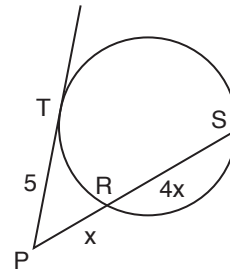
Taralı Alan

$$S = \frac{60}{360} \cdot \pi \cdot 2^2 - \frac{60}{360} \cdot \pi \cdot 1^2$$

$$\frac{3\pi}{6} = \frac{\pi}{2}$$

Cevap: B

8.



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

$$|PS| = 5 |PR|$$

$$|PR| = x$$

$$|PT|^2 = |PR| \cdot |PS|$$

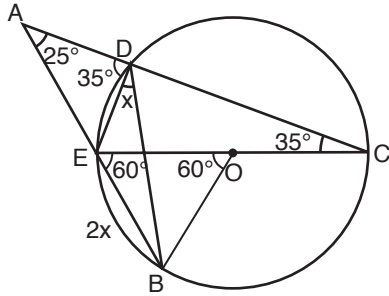
$$5^2 = x \cdot 5x$$

$$25 = 5x^2$$

$$x^2 = 5 \Rightarrow x = \sqrt{5} \text{ olur.}$$

Cevap: A

9.



$$m(\widehat{EDB}) = x \text{ ise}$$

$$\widehat{EB} = 2x \text{ olur.}$$

$$\widehat{DE} = 70^\circ$$

$$\frac{\widehat{BC} - 70}{2} = 25$$

$$\widehat{BC} - 70 = 50$$

$$\widehat{BC} = 120^\circ$$

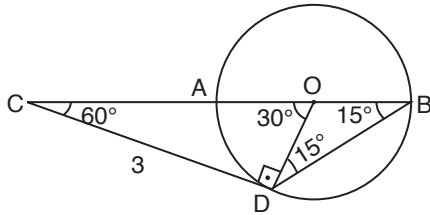
O halde $\widehat{EB} = 60^\circ$ dir.

$$2x = 60 \Rightarrow x = 30 \text{ bulunur.}$$

Cevap: E

10. $m(\widehat{ABD}) = 15^\circ$

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



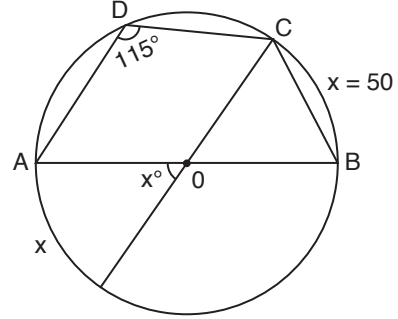
$$30^\circ - 60^\circ - 90^\circ \text{ den}$$

$$|OD| = r = 3\sqrt{3}$$

$$\text{Alan} = \pi \cdot r^2 = 27\pi$$

Cevap: E

11.



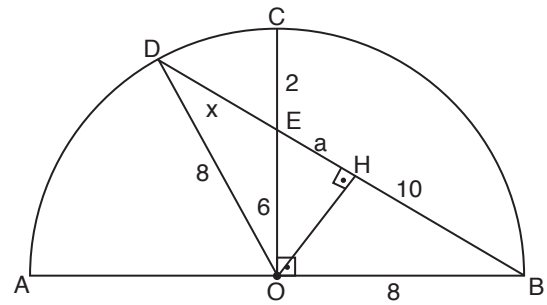
$$\widehat{AC} = 230^\circ \Rightarrow \widehat{CB} = 230 - 180$$

$$\widehat{CD} = 50^\circ$$

x merkez açı olduğundan $x = 50^\circ$ dir.

Cevap: D

12.



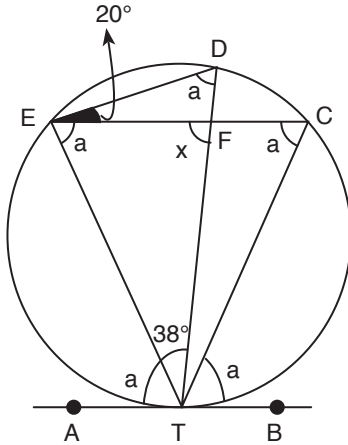
$$6^2 = a \cdot 10$$

$$3,6 = a$$

$$|DH| = a + x = 6,4 = |HB|$$

$$3,6 + x = 6,4 \Rightarrow \boxed{x = 2,8}$$

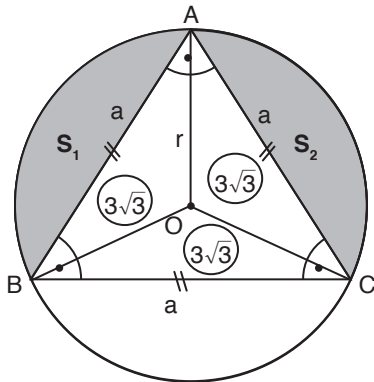
Cevap: E



$$\boxed{a = 61} \Rightarrow x = 20 + 61 = 81^\circ \text{ dir.}$$

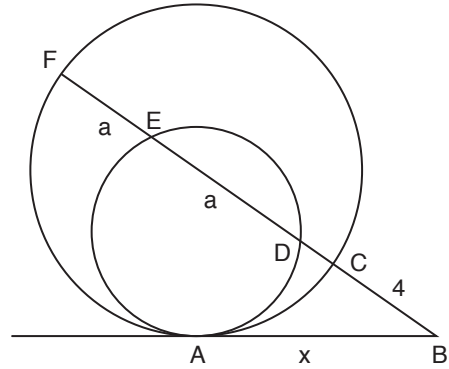
Cevap: D

TASARI EĞİTİM YAYINLARI



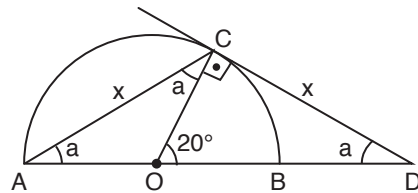
$$= 8\pi - 6\sqrt{3}$$

Cevap: D



$$x = 6\sqrt{2}$$

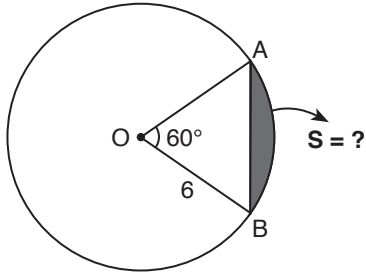
Cevap: B



$$2a = x = 2\sqrt{3}$$

Cevap: D

17.

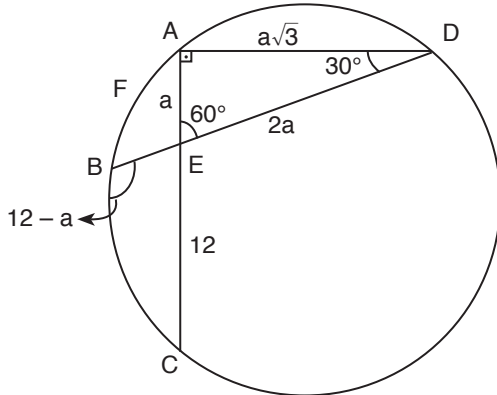


$$S = \frac{60}{360} \cdot \pi \cdot 6^2 - \frac{6^2 \sqrt{3}}{4}$$

$$= 6\pi - 9\sqrt{3}$$

Cevap: D

18.



$$12 \cdot a = (12 - a) \cdot 2a$$

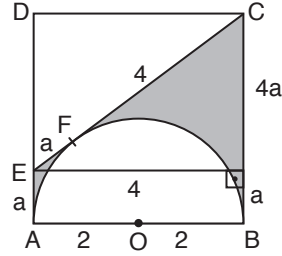
$$6 = 12 - a$$

$$a = 6$$

$$a\sqrt{3} = 6\sqrt{3}$$

Cevap: E

19.



$$a = 1$$

$$A(ABCE) = 4 \cdot a + \frac{4 \cdot (4 - a)}{2} - \frac{1}{2} \pi \cdot 2^2$$

$$= 4 \cdot 1 + \frac{4 \cdot 3}{2} - 2\pi$$

$$= 10 - 2\pi$$

Cevap: B

20. Çember denklemleri belirtmesi için

$$x^2 + y^2 + ax + by + c = 0 \text{ formatında olmalı}$$

Bu formata uyan I. ve II. seçenekler var.

Cevap: A