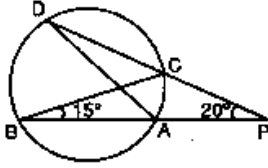


1.

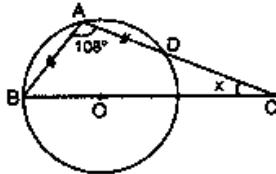


$$\begin{aligned} m(\widehat{CBP}) &= 15^\circ \\ m(\widehat{BPD}) &= 20^\circ \\ 3m(\widehat{DB}) &= 2m(\widehat{BA}) \end{aligned}$$

Şekildeki çemberde $3m(\widehat{DB}) = 2m(\widehat{BA})$ olduğuna göre, DC yayının ölçüsü kaç derecedir?

- A) 88 B) 102 C) 120 D) 132 E) 155

2.

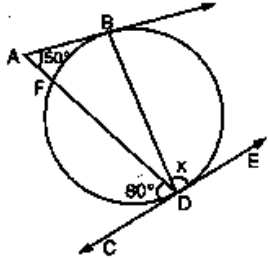


$$\begin{aligned} \text{BAC bir üçgen} \\ O, \text{ çemberin merkezi} \\ |AB| &= |AD| \\ m(\widehat{BAC}) &= 108^\circ \\ m(\widehat{BCA}) &= x \end{aligned}$$

Yukarıdaki verilere göre, $m(\widehat{BCA}) = x$ kaç derecedir?

- A) 18 B) 22 C) 24 D) 26 E) 28

3.

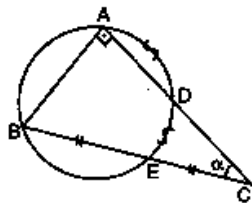


$$\begin{aligned} |AB|, B \text{ de teğet} \\ |CE|, D \text{ de teğet} \\ m(\widehat{BAD}) &= 50^\circ \\ m(\widehat{ADC}) &= 80^\circ \\ m(\widehat{BDE}) &= x \end{aligned}$$

Yukarıdaki çemberde verilenlere göre, $m(\widehat{BDE}) = x$ kaç derecedir?

- A) 50 B) 60 C) 65 D) 70 E) 75

4.

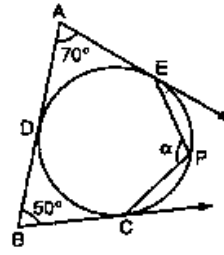


$$\begin{aligned} \text{BAC bir üçgen} \\ m(\widehat{BAC}) &= 90^\circ \\ m(\widehat{AD}) &= m(\widehat{DE}) \\ |BE| &= |EC| \\ m(\widehat{BCA}) &= x \end{aligned}$$

Yukarıdaki verilere göre, $m(\widehat{BCA}) = x$ kaç derecedir?

- A) 15 B) 20 C) 30 D) 45 E) 60

5.

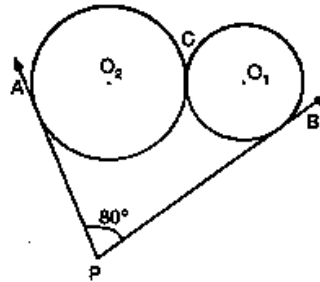


$$\begin{aligned} m(\widehat{BAE}) &= 70^\circ \\ m(\widehat{ABC}) &= 50^\circ \\ m(\widehat{CPE}) &= \alpha \end{aligned}$$

Şekildeki çemberde verilere göre, $m(\widehat{CPE}) = \alpha$ kaç derecedir?

- A) 90 B) 100 C) 110 D) 120 E) 130

6.

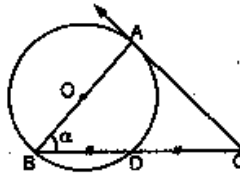


$$\begin{aligned} O_1 \text{ ve } O_2 \text{ merkezli} \\ \text{çemberler } C \text{ de birbir-} \\ \text{lerine teğet} \\ |PA|, A \text{ noktasında} \\ |PB|, B \text{ noktasında} \\ \text{çemberlere teğettir.} \\ m(\widehat{APB}) &= 80^\circ \end{aligned}$$

Yukarıdaki verilere göre, $m(\widehat{AC}) + m(\widehat{CB})$ toplamı kaç derecedir?

- A) 280 B) 350 C) 420 D) 440 E) 450

7.

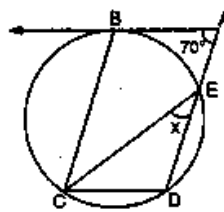


$$\begin{aligned} O, \text{ çemberin merkezi} \\ A \text{ teğetin değme nok-} \\ \text{tasıdır.} \\ |BD| &= |DC| \\ m(\widehat{ABC}) &= \alpha \end{aligned}$$

Yukarıdaki verilere göre, $m(\widehat{ABC}) = \alpha$ kaç derecedir?

- A) 18 B) 30 C) 45 D) 60 E) 72

8.



$$\begin{aligned} \text{ABCD paralelkenar} \\ |AB| \text{ çembere teğet} \\ m(\widehat{BAD}) &= 70^\circ \\ m(\widehat{CED}) &= x \end{aligned}$$

Yukarıdaki verilere göre, $m(\widehat{CED}) = x$ kaç derecedir?

- A) 60 B) 50 C) 45 D) 40 E) 30

