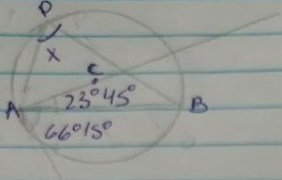


## ARCOS E ÂNGULOS NA CIRCUNFERÊNCIA

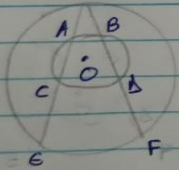
### Exercícios 1, 2 e 3

01.



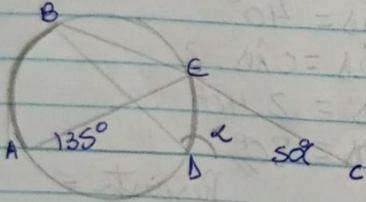
$\hat{C}B = 2.23^{\circ}45'$   
 $\hat{C}B = 47^{\circ}30'$   
 $\hat{A}BC = 180^{\circ}$   
 $\hat{A}B = 180^{\circ} - 47^{\circ}30'$   
 $\hat{A}B = 132^{\circ}30'$   
 $x = \frac{\hat{A}B}{2}$   
 $x = \frac{132^{\circ}30'}{2}$   
 $x = 66^{\circ}15'$   
 Resposta E

02.



Ângulo central  $\hat{E}F x = 20^{\circ}$   
 $\hat{E}OF = 40^{\circ}$   
 $\hat{A}OB = 20^{\circ}$   
 $\hat{A}B x = 20^{\circ}$   
 Ângulo interno =  $\hat{A}PD$   
 $x \hat{A}D = 140^{\circ}$   
 $\hat{C}AB = 40^{\circ}$   
 $\hat{C}OA = \hat{C}AB \cdot 2$   
 $\hat{C}D = 2 \cdot 40^{\circ}$   
 $\hat{C}D = 80^{\circ}$   
 Resposta E

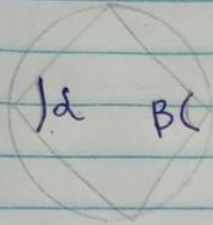
03.



$50^{\circ} + 35^{\circ} + \alpha = 180^{\circ}$   
 $85^{\circ} + \alpha = 180^{\circ}$   
 $\alpha = 180^{\circ} - 85^{\circ}$   
 $\alpha = 95^{\circ}$   
 Resposta A  
 $\hat{D}BE = \hat{D}AC = 35^{\circ}$   
 $\hat{B}CD = 180^{\circ}$

Exercícios 4, 5 e 6

04.

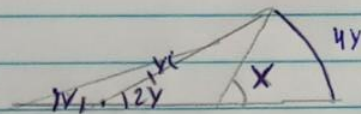


$$\angle + \beta = 180^\circ$$

$$180^\circ = \pi$$

Resposta C

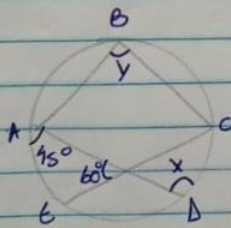
05.



$$X = 4y$$

$$y = \frac{X}{4}$$

06.



$X = \hat{\text{Ângulo inscrito}} 75^\circ$

$$\text{Arco } ABC = 150^\circ$$

$$\text{Arco } AEC = 210^\circ$$

$$\angle AEC = 75^\circ$$

$$y = \frac{210^\circ}{2}$$

$$X = 75^\circ$$

$$y = 105^\circ$$