

Tarefa básica - Arcos e Ângulos na circunferência

$$\textcircled{1} \begin{aligned} 23^{\circ}45' \cdot 2 &= 46^{\circ}90' \\ 66^{\circ}15' \cdot 2 &= 132^{\circ}30' \end{aligned}$$

$$x = \frac{132^{\circ}30' - 46^{\circ}90'}{2} = 66^{\circ}15'$$

alternativa "E"

$$\textcircled{2} \begin{aligned} CD &= 40^{\circ} \cdot 2 \\ CD &= 80^{\circ} \end{aligned}$$

alternativa "E"

$$\textcircled{3} \begin{aligned} x &= \frac{70^{\circ}}{2} = 35^{\circ} \end{aligned}$$

$$180^{\circ} - (50^{\circ} + x + \alpha)$$

$$180^{\circ} - (50^{\circ} + 35^{\circ} + \alpha)$$

$$180^{\circ} - (85^{\circ} + \alpha)$$

$$180^{\circ} - 85^{\circ} - \alpha = 0$$

$$180^{\circ} - 85^{\circ} = \alpha$$

$$95^{\circ} = \alpha$$

alternativa "A"

$$\textcircled{4} \begin{aligned} \alpha + \beta &= 180^{\circ} \\ 180^{\circ} &= 180^{\circ} \text{ vero} \\ &= 180^{\circ} \end{aligned}$$

alternativa "C"

$$\textcircled{5} \begin{aligned} X &= Y \\ Y &= X \end{aligned}$$

$$\textcircled{6} \begin{aligned} 45 + 60 &= 105^{\circ} \\ AEC &= 180^{\circ} - 105^{\circ} \\ AEC &= 75^{\circ} \end{aligned}$$

$$Y = \frac{210^{\circ}}{2} = 105^{\circ}$$

$$x = \frac{150^{\circ}}{2} = 75^{\circ}$$

$$\begin{aligned} ABC &= 150^{\circ} \\ AEC &= 75^{\circ} \end{aligned}$$