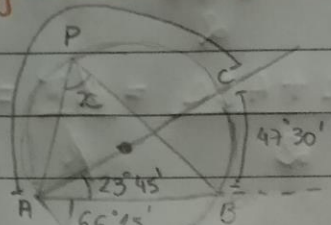


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ET11-317

Tarefa Básica - Arcos e Ângulos na Circunferência

01.



$$\widehat{CB} = 23^{\circ}45' + 23^{\circ}45'$$

$$\widehat{AC} = 180^{\circ}$$

$$\widehat{CB} = 46^{\circ}1'30''$$

$$\widehat{CB} = 47^{\circ}30'$$

$$\widehat{AB} = 180^{\circ} - 47^{\circ}30'$$

$$\widehat{AB} = 179^{\circ}60' - 47^{\circ}30'$$

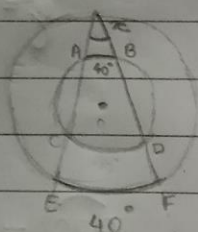
$$x = \frac{\widehat{AB}}{2} = \frac{132^{\circ}30'}{2} \Rightarrow x = 66^{\circ}15'$$

2

2

Letra E

02.



$$x = 40^{\circ} = 20^{\circ}$$

2

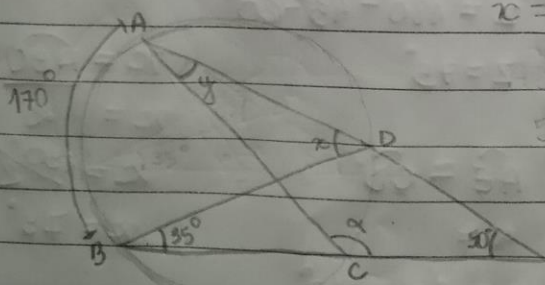
$$20^{\circ} = \frac{\widehat{CD} - 40^{\circ}}{2}$$

2

$$40^{\circ} = \widehat{CD} - 40^{\circ}$$

$$\widehat{CD} = 80^{\circ} \text{ Letra E}$$

03.



$$x = 50^{\circ} + 35^{\circ} = 85^{\circ}$$

$$\widehat{AB} = 2x$$

$$\widehat{AB} = 2 \cdot 85^{\circ}$$

$$\widehat{AB} = 170^{\circ}$$

$$y = \frac{\widehat{CD}}{2}$$

$$y = \frac{70}{2}$$

$$y = 35^{\circ}$$

$$50^{\circ} = \frac{170^{\circ} - \widehat{CD}}{2}$$

2

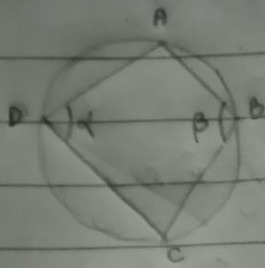
$$100^{\circ} = 170^{\circ} - \widehat{CD}$$

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

$$x = 180^{\circ} - 50^{\circ} - 35^{\circ}$$

$$x = 95^{\circ} \text{ Letra A}$$

04.



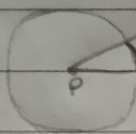
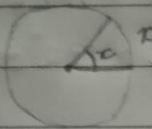
$$\alpha = \frac{ABC}{2}, \quad \beta = \frac{ADC}{2}, \quad ABC + ADC = 2\pi$$

$$\alpha + \beta = \frac{ABC + ADC}{2}$$

$$\alpha + \beta = \frac{ABC + ADC}{2} = \frac{2\pi}{2} = \pi$$

Letra C

05.



$$z = \frac{x}{2}$$

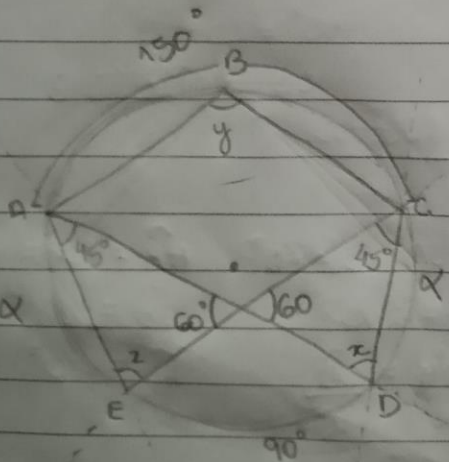


$$y = \frac{z}{2}$$

$$y = \frac{x/2}{2}$$

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

06.



$$\widehat{ED} = 2 \cdot 45^\circ = 90^\circ$$

$$\widehat{ABC} = 2 \cdot 75^\circ$$

$$\widehat{ABC} = 150^\circ$$

$$z = 180^\circ - 45^\circ - 60^\circ$$

$$z = 75^\circ$$

$$x = \widehat{ABC}$$

$$x = 2$$

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

$$x = 75^\circ$$

$$150^\circ + 90^\circ + 2\alpha = 360^\circ$$

$$2\alpha = 120^\circ$$

$$\alpha = 60^\circ$$

$$y = \frac{2\alpha + 90^\circ}{2}$$

$$y = \frac{2 \cdot 60^\circ + 90^\circ}{2}$$

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

$$y = 105^\circ$$