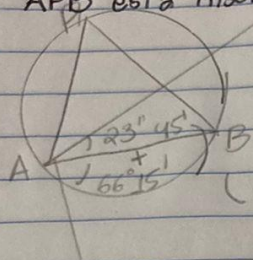


01 APB está inscrito na circunferência de centro C



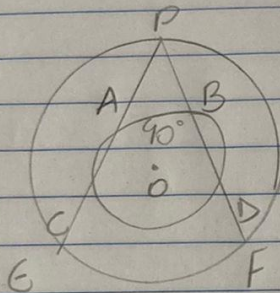
$$\widehat{APB} = x$$

$> 90^\circ$, Tangência A

$$AB = 2 \cdot 66^\circ 15' = 132^\circ 30'$$

$$\widehat{APB} = \frac{132^\circ 30'}{2} = 66^\circ 15'$$

02



$$EF = 20^\circ$$

$$\widehat{AOB} = 40$$

$$\widehat{APB} = 20^\circ$$

$$20 + 20^\circ + x = 180^\circ$$

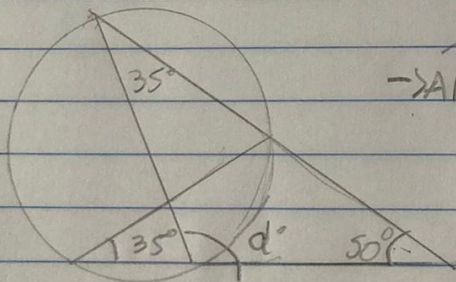
$$40^\circ + x = 180^\circ$$

$$\widehat{PAD} x = 180^\circ - 40 = 140^\circ$$

$$\rightarrow CD = 2 \cdot 40^\circ = 80^\circ$$

Arco

03



\widehat{AB}

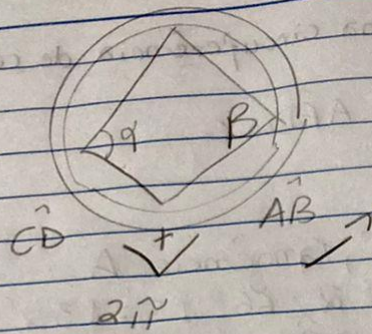
$$35^\circ = \widehat{AB} = 35^\circ$$

2

$$d + 35^\circ + 50^\circ = 180^\circ$$

$$d = 180^\circ - 50^\circ - 35^\circ = 95^\circ$$

4-

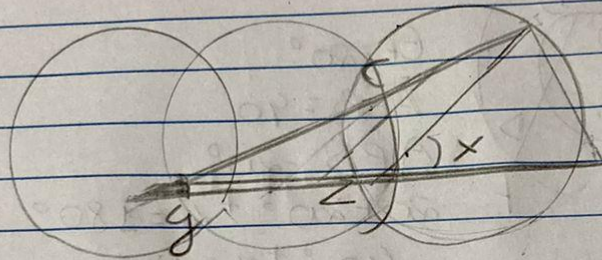


$$\alpha = \hat{A}\hat{B}, \quad \beta = \hat{C}\hat{D}$$

$$2\alpha + 2\beta = 2\pi$$

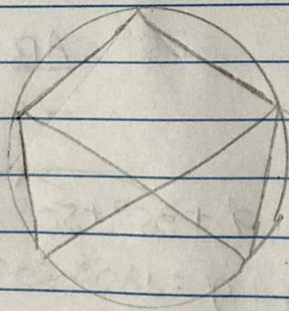
$$\beta + \alpha = \pi$$

5-



$$y = \hat{C}\hat{D} = y = \frac{x}{2} \quad - \quad y = \frac{x}{2} \cdot \frac{1}{2}$$

6-



$$\frac{x}{4}$$

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

$$z = 75^\circ$$

$$60^\circ = \hat{A}\hat{E} + \hat{C}\hat{D} = 120^\circ$$

$$45^\circ = \hat{E}\hat{D} = 90^\circ$$

$$y = 120^\circ + 90^\circ = 210^\circ = y = 105^\circ$$