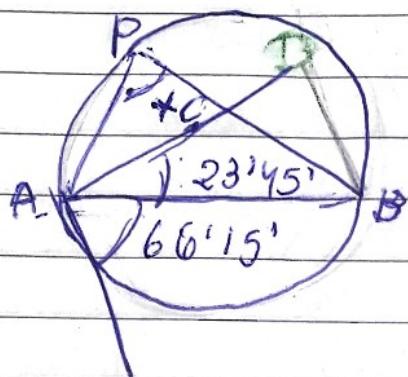


Arcos e Ângulos na Circunferência - CT 11317  
nome: Vinícius Filipe da Silva

1)



$\angle DAB$

$$\angle DB = 2 \cdot 23^\circ 45' = 47^\circ 30'$$

$\angle ADB$  = Diâmetro, logo:

$$\angle ABD = 180^\circ$$

$$\angle AB = 180^\circ - 47^\circ 30'$$

$$\angle AB = 132^\circ 30'$$

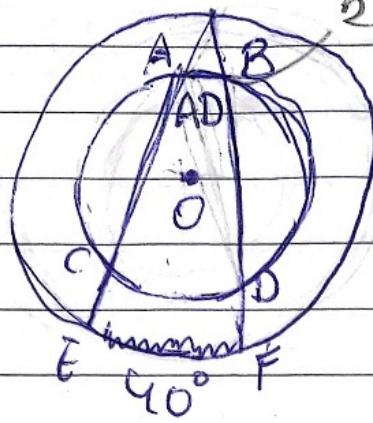
$$\angle APB = x$$

$$x = \frac{132^\circ 30'}{2}$$

$$x = 66^\circ 15'$$

D: letra **E**

2)



$$\begin{aligned} \text{APD} \\ \text{APD} = 20^\circ = \text{APP} \end{aligned}$$



Perímetre de EF

$$EF = 40^\circ$$

$$\angle EPE = 20^\circ$$

$$\text{AOB} \equiv \text{Arc AB}$$

$$\text{AOB} = 40^\circ$$

$$\text{ADB} = \text{AOB}$$

2

$$\text{PAD} = 180^\circ - \text{APD} - \text{APP}$$

$$\text{PAD} = 180^\circ - 20^\circ - 20^\circ$$

$$\text{PAD} = 140^\circ$$

$$\text{PAD} = 140^\circ$$

$$\text{CAP} = 180^\circ$$

$$\text{CAD} = 40^\circ$$

$$\angle CAD \equiv \angle COD$$

$$\text{ABB} = \frac{40^\circ}{2} = 20^\circ$$

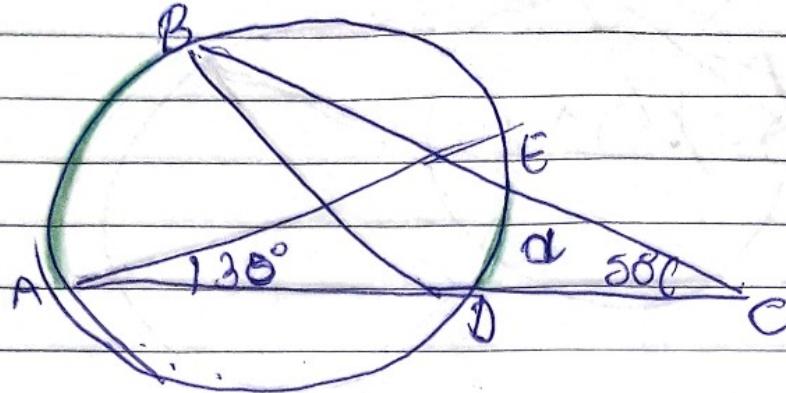
$$\angle COD \equiv \text{Arc CD}$$

$$\text{Arc CD} = 2 \cdot 40^\circ$$

$$\text{Arc CD} = 80^\circ$$

lletro (E)

3)



$$\angle DAE = \angle DBE$$

$$\angle DBE = \angle DAE = 35^\circ$$

$$\angle BCD = 180^\circ, \text{ d.h.}$$

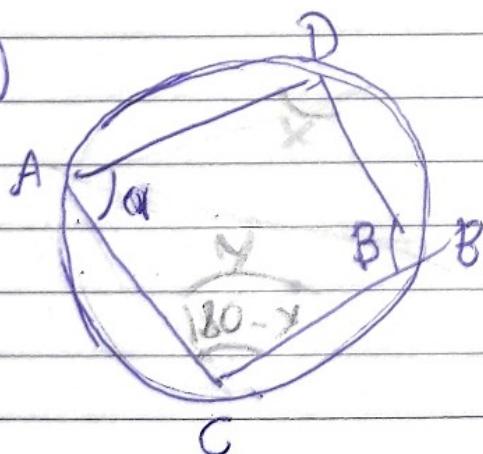
$$50^\circ + 35^\circ + \alpha = 180^\circ$$

$$85^\circ + \alpha = 180^\circ$$

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

$$\alpha = 95^\circ$$

4)



$$\alpha = \text{Area of } \triangle ABC$$

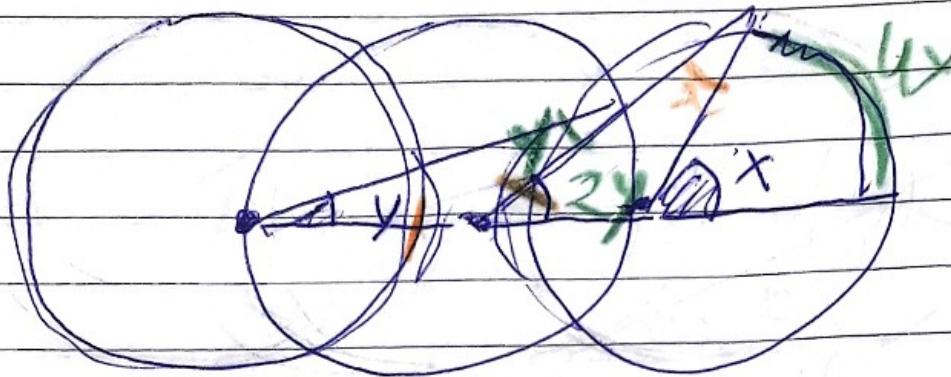
$$\beta = \text{Area of } \triangle ACG$$

$$\alpha - \beta = (\text{Area } \triangle ABC - \text{Area } \triangle AC) =$$

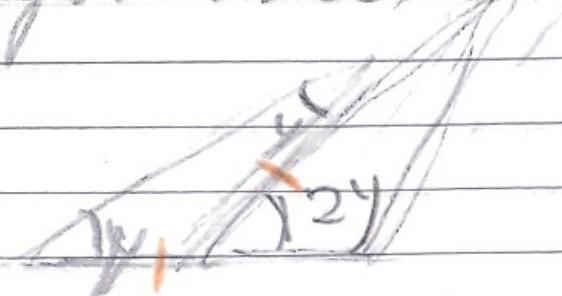
$$= \frac{2\pi}{2} = \pi \text{ Rad}^2$$

lito ①

5)



Triangular areas



$$x + y = 2y$$

$$2y + 2y = 4y$$

Central

$$x = AB$$

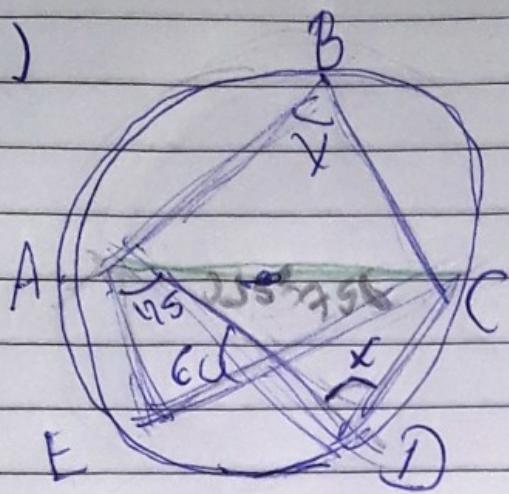
$$x = 4y$$

One inserting

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

$$x = \frac{4y}{2} = 2y$$

6)



$$\angle AEC = 180 - 45 - 60$$

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

$$x = 75^\circ$$

$$\text{Since } \angle ABC = 150^\circ$$

$$\angle AEC = 210^\circ$$

incants  $\angle AED = \frac{1}{2} \angle AEC$

$$\angle AED = \frac{1}{2} \angle AEC$$

$$y = \angle AED$$

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

$$y = 105^\circ$$