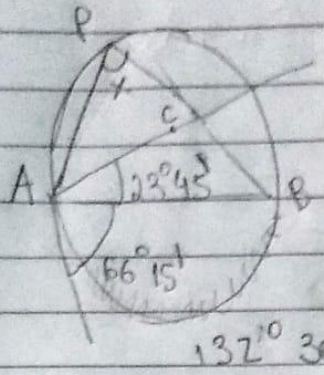
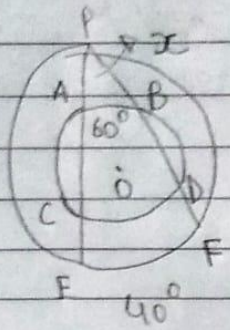
Nome: Gabriely Cristina Silva Santos
CTII: 317

ARCOS E ÂNGULOS NA CIRCUNFERÊNCIA

Tarefa Básica

① 

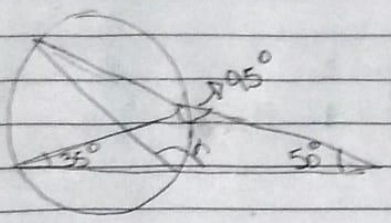
$23°45' + 66°15' = 89°60' = 90°$
APB ângulo inscrito
$AB = 2 \cdot 66°15' = 132°30'$
$x = \frac{132°30'}{2} = |66°15'|$ (E)

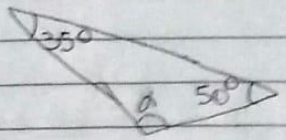
② 

$x = \frac{40°}{2} = 20°$

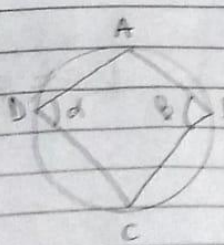
$20° = \frac{CD - 40°}{2}$
$40° = CD - 40°$
$-CD = -40° - 40°$
$-CD = -80°$ (x-1)
$|CD = 80|$ E)

$C\hat{A}D = 40°$
$COD = \text{arco } CD = 2 \cdot 40° = 80°$

③ 



$35° + \alpha + 50° = 180$
$|\alpha = 95°|$ (A)

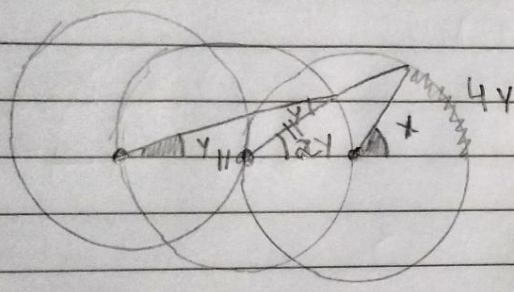
④ 

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

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

$\alpha + \beta = \frac{ABC + ADC}{2} = \frac{2\pi}{2} = \boxed{\pi}$ (C)

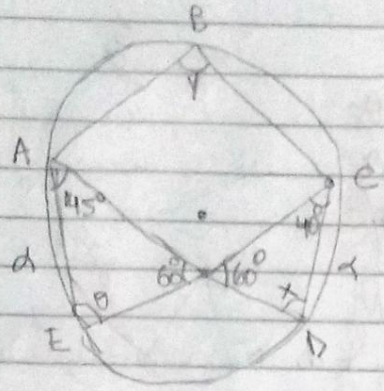
⑤



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

$Y + Y = 2Y$

⑥



$ED = 2.45° = 90°$

$\overset{\frown}{ABC} = 2.75°$

$ABC = 150°$

$\theta = 180° - 45° - 60°$

$\theta = 75°$

$150° + 90° + 2\alpha = 360°$

$2\alpha = 120°$

$\alpha = 60°$

$x = \frac{ABC}{2} = \frac{150°}{2} = |75°|$

$Y = \frac{2\alpha + 90°}{2}$

$Y = \frac{2 \cdot 60 + 90°}{2}$

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

$|Y = 105|$