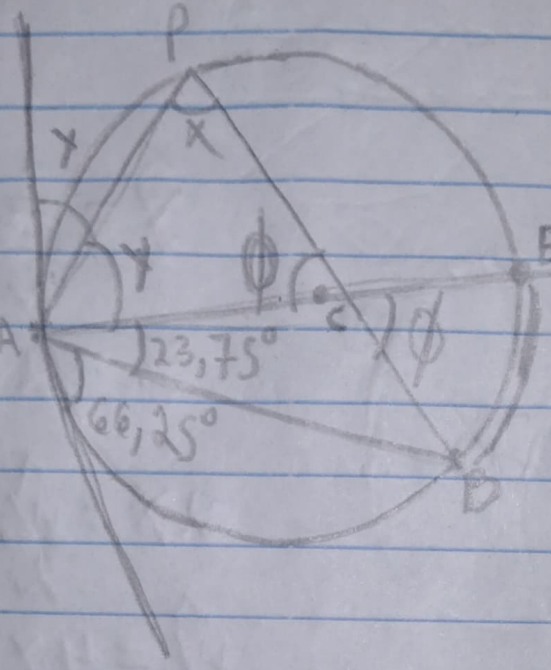
Exercícios

01-



$\hat{BE} = 23,75 \cdot 2 = 47,5$

$\phi = \frac{47,5 + 90}{2} = \frac{137,5}{2} = 68,75$

$Y = \frac{\hat{AE}}{2} = \frac{90}{2} = 45°$

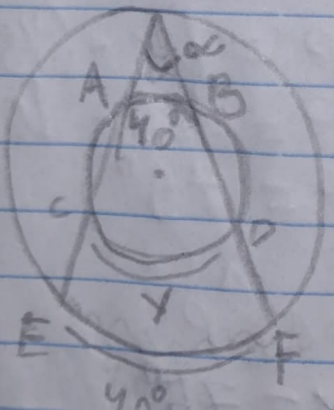
$X = 180 - (68,75 + 45)$

$X = 180 - 113,75$

$X = 66,25 = 66°15'$

(E)

02-



$\hat{AB} = \hat{EF} = 40°$

$\alpha = \frac{40}{2} = 20°$

$\alpha = \frac{CD - AB}{2}$

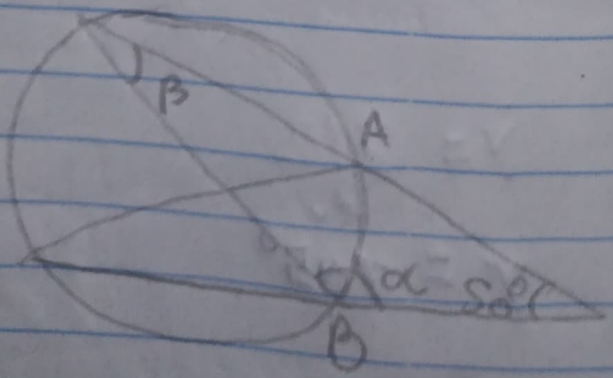
$20 = \frac{CD - 40}{2}$

$40 + 40 = CD$

$CD = 80°$

(E)

03-



$\hat{AB} = 35 \cdot 2 = 70$

$\beta = \frac{70}{2} = 35$

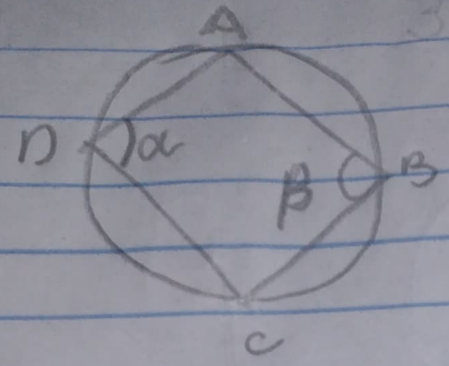
$\alpha = 180 - (35 + 50)$

$\alpha = 180 - 85$

$\alpha = 95°$

(A)

04-



$\alpha = \frac{(\hat{AB} + \hat{BC})}{2} \Rightarrow \alpha = \frac{180}{2}$

$\alpha = 90° = \frac{\pi}{2}$ rad

$\beta = \frac{(\hat{AD} + \hat{DC})}{2} \quad \beta = \frac{180}{2}$

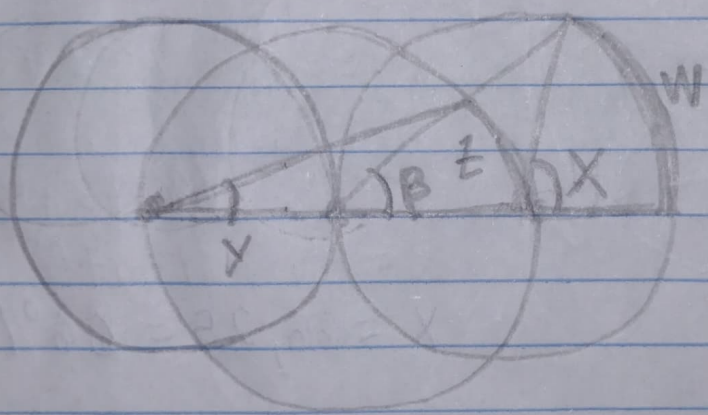
$\beta = 90° = \frac{\pi}{2}$ rad

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

$\alpha + \beta = \pi$

(C)

05-



$\hat{Y} = \frac{\hat{Z}}{2}$ $\quad X = \hat{W}$

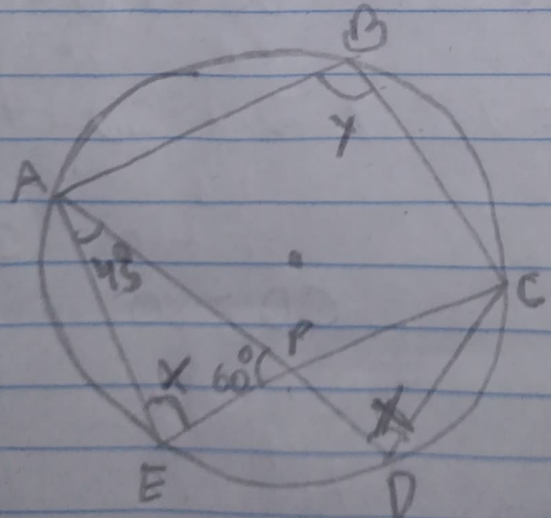
$Z = 2Y$ $\quad X = 4Y$

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

$2Y = \frac{\hat{W}}{2}$

$\hat{W} = 4Y$

06-



$\hat{AEP} = 180 - (45 + 60)$

$\hat{AEP} = 180 - 105$

$\hat{AEP} = 75°$

$\hat{AEP} = \hat{CDP}$

Logo, $X = 75°$

$\hat{ABC} = 75 \cdot 2 = 150°$

$\hat{AEDC} = 360 - 150 = 210°$

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

$Y = 105°$