1- $23°45' + 66°15' = 90$

$AB = 2 \cdot 66°15° \rightarrow AB = 132°30'$

$A\hat{P}B = \frac{AB}{2} \rightarrow \frac{132°30'}{2}$ $\quad A\hat{P}B = 66°15$

Alternativa E

2- $E\hat{P}F = 20°$

$A\hat{O}B = 40°$

$\therefore A\hat{P}D = 20°$

$P\hat{A}D = 20° + 20° + x = 180°$

$P\hat{A}D = x = 140°$

$C\hat{A}D = 40° \longrightarrow C\hat{O}D = \text{Arco } CD = 2 \cdot 40° = 80°$

Alternativa E

3- $35° = \frac{AB}{2} \rightarrow x = \frac{\hat{AB}}{2} = 35°$

$\alpha + 35° + 50° = 180°$

$\alpha = 180° - 50° - 35°$

$\alpha = 180 - 85 = 95$

Alternativa A

4- $\alpha = \frac{\hat{AB}}{2} \rightarrow \hat{AB} = 2\alpha$

$B = \frac{\hat{CD}}{2} \rightarrow \hat{CD} = 2B$

$\hat{CD} + \hat{AB} = 2\pi$

$2B + 2\alpha = 2\pi \ (\div 2)$

2π é igual a 360

$B + \alpha = \pi$

Alternativa C

5- $x = \hat{AB}$ $\quad z = \frac{x}{2}$ $\quad y = \frac{\hat{CD}}{2} \rightarrow y = \frac{x}{2}$

$z = \hat{CD}$

$\hat{CD} = \frac{x}{2}$

$\frac{2}{1}$

$y = \frac{x}{2} \cdot \frac{1}{2} = y = \frac{x}{4}$

6- $z + 45° + 60° = 180°$

$z = 180° - 105°$

$z = 75°$

$45° = \frac{\hat{ED}}{2} \rightarrow \hat{ED} = 90°$

$z = \frac{\hat{AC}}{2} \rightarrow 75° = \frac{\hat{AC}}{2}$

$x = \frac{\hat{AC}}{2} \rightarrow x = 75°$

$60° = \frac{\hat{AE} + \hat{CD}}{2}$

$\hat{AE} + \hat{CD} = 120$

$y = \frac{\hat{AE} + \hat{CD} + \hat{ED}}{2}$

$y = \frac{120° + 90}{2} = \frac{210°}{2}$

$y = 105°$