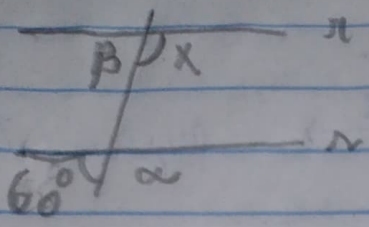
Exercícios

01-



$\alpha = x \quad \beta = 180 - x$

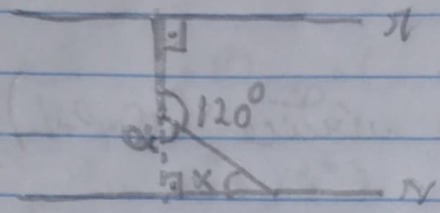
$\alpha = 180 - 60 = 120°$

$\alpha = x$

$\boxed{x = 120°}$

(C)

02-



$\alpha = 180 - 120 = 60°$

$\Delta = 180°$

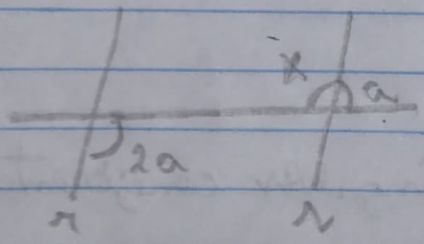
$\Delta = \alpha + x + 90 = 180$

$-60 + 90 + 180 = x$

$x = 180 - 150 = \boxed{30°}$

(B)

03-



2a e a → suplementares

$2a + a = 180$

$a = \frac{180}{3} = 60°$

2a e x → congruentes

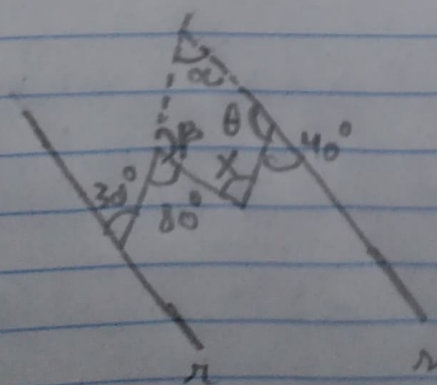
$2a = x$

$2 \cdot 60 = \alpha$

$\boxed{x = 120°}$

(D)

04-



Quadrilátero = 360°

$\beta = 180 - 80 = 100°$

$\theta = 180 - 40 = 140°$

$\alpha = 30°$ → congruente

$\alpha + \beta + \theta + x = 360$

$30 + 100 + 140 + x = 360$

$x = 360 - 270$

$\boxed{x = 90°}$

05- $\frac{5x}{4} + x = 180$

$\frac{5x + 4x}{4} = 180$

$9x = 180.4$

$x = \frac{720}{9} = 80^\circ$

$\frac{5x}{4} + x = 180$

$\frac{5.80}{4} + 80 = 180$

$100 + 80 = 180$

(A)

06- $\frac{x + x}{2} = 90$

$2x + x = 90$

$x = \frac{90}{3} = \boxed{30^\circ}$

(A)

07- $\frac{3(90 - x)}{3} = \frac{1}{3}(180 - x)$

$9(90 - x) = (180 - x)$

$810 - 9x = 180 - x$

$810 - 180 = -x + 9x$

$x = \frac{630}{8} = 78,75^\circ \rightarrow 0,75.60' = 45' \rightarrow \boxed{78^\circ 45'}$

(E)