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Turma: CTII 348

Prontuário: CB1990209

Disciplina: Matemática

IFSP - Câmpus Cubatão

Tarefa Básica 10

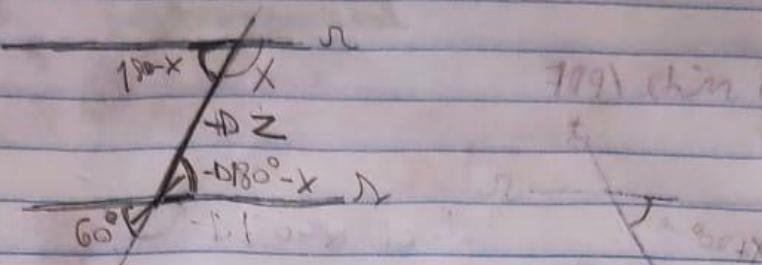
Geometria Plana - Conceitos Iniciais

(Fotos nas páginas seguintes)

Exercícios 1, 2 e 3:

Sorcha Bruxa 10

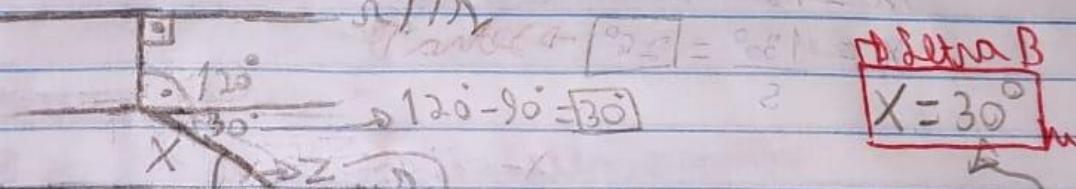
1-)



60° é congruente de $180^\circ - x$, então $x = 120^\circ$

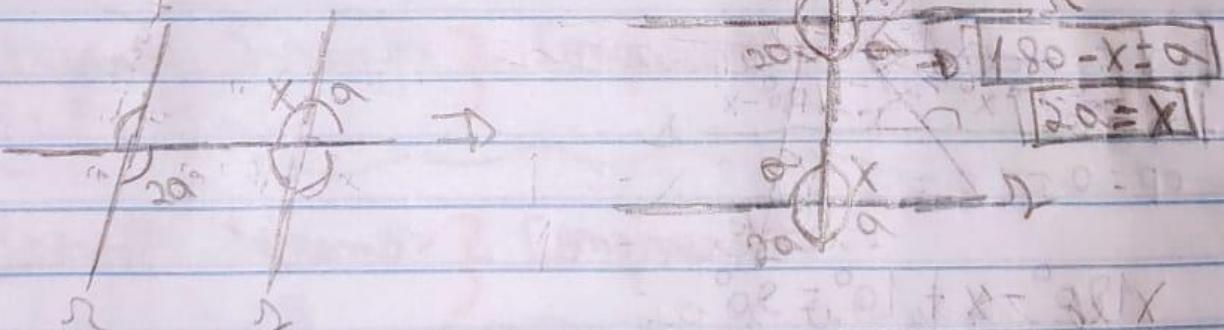
$$180^\circ - x = 60^\circ \Rightarrow 180^\circ - 60^\circ = x \Rightarrow x = 120^\circ \quad \text{Letra C}$$

2-)



relação que = soma dos ângulos Regra do Z pleno

3-)



$$180 - x = a \quad \boxed{2a = x}$$

$$180 - 2a = a$$

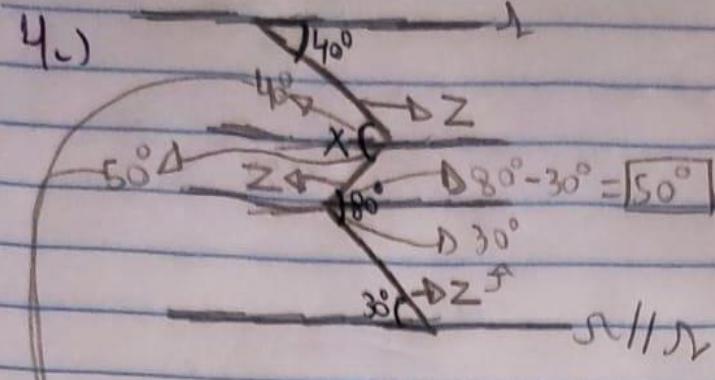
$$180 = 2a + a$$

$$180 = 3a$$

$$\frac{180}{3} = a \Rightarrow a = 60^\circ$$

$$x = 120^\circ \quad \text{Letra D}$$

Exercícios 4, 5, 6 e 7:



$$x = 50^\circ + 40^\circ \Rightarrow x = 90^\circ$$

∴

$$5-) x = \frac{5 \cdot (180 - x)}{4} \Rightarrow x = \frac{900 - 5x}{4} = \therefore$$

$$\begin{aligned} \therefore &= 4x = 900 - 5x \quad \Rightarrow 9x = 900 \quad \text{→ Lema A} \\ &4x + 5x = 900 \quad \Rightarrow x = \frac{900}{9} \rightarrow x = 100^\circ \end{aligned}$$

∴

$$6-) x = \frac{90 - x}{2} \Rightarrow 2x = 90 - x \Rightarrow 3x = 90 \Rightarrow x = 30^\circ$$

$$x = 90$$

→ Lema A

$$7-) 3 \cdot \frac{90 - x}{x} = \frac{180 - x}{3} \Rightarrow 3 \cdot (90 - x) = 180 - x \Rightarrow \therefore$$

$$\Rightarrow 270 - 9x = 180 - x$$

$$270 - 180 = 9x - x$$

→ Lema E

$$630 = 8x$$

$$630 = x$$

$$x = 78^\circ 45'$$