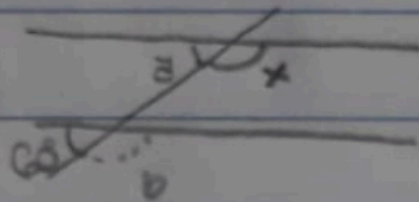


Bretriz Gonçalves Elétrico

• Geometria Plana

①



$$a = 60^\circ$$

$$b = x$$

$$a + b = 180^\circ$$

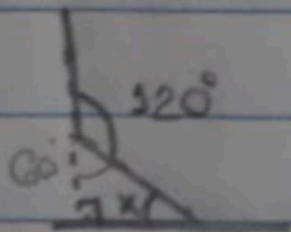
$$60^\circ + x = 180^\circ$$

$$x = 180^\circ - 60^\circ$$

$$\boxed{x = 120^\circ}$$

$$\boxed{120^\circ}$$

②



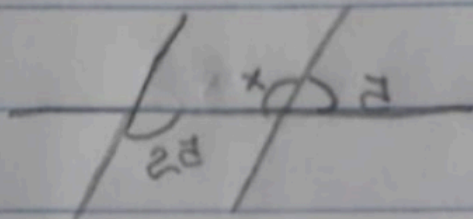
$$\rightarrow 60^\circ + 90^\circ + x = 180$$

$$x = 180 - 120$$

$$\boxed{x = 30^\circ}$$

$$\boxed{30^\circ}$$

③ $r // s \rightarrow$ parallel



$$2d + d = 180^\circ$$

$$3d = 180$$

$$d = 180 / 3 \quad d = 60^\circ$$

$$x + d = 180^\circ$$

$$x + 60 = 180$$

$$x = 180 - 60$$

$$\boxed{x = 120^\circ} //$$

$$120^\circ$$

④

$$30 + x = 80 + 40$$

$$x = 120 - 30$$

$$\boxed{x = 90^\circ} //$$

$$90^\circ$$

⑥ $x + y = 90$ $\frac{x}{2} = y \rightarrow x = 2y$

$2y + y = 90$

$3y = 90 \rightarrow y = \frac{90}{3} \rightarrow y = 30^\circ$ 30°

⑦ complemento $\rightarrow x + y = 90$ $\text{triple } 3x + 3y = 270$

suplemento $\rightarrow x + y = 180$ $\text{triple } \frac{x + y}{3} = 180$

$\frac{3x}{3} - \frac{270}{3} = \frac{x}{3} - \frac{180}{3} \rightarrow 9x - 810 = x - 180$

$9x - x = 810 - 180$

$8x = 630 \Rightarrow x = \frac{630}{8} = 78^\circ 45'$

$78^\circ 45'$

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5) suplemento $= x + y = 180^\circ$

$$y = \left(\frac{5}{4}\right) \cdot x$$

$$y = \left(\frac{5}{4}\right) \cdot 80$$

100°

$$y = 100^\circ$$

$$x + \left(\frac{5}{4}\right) \cdot x = 180$$

$$\left(\frac{9}{4}\right) x = 180 \rightarrow x = \frac{180}{9/4} \rightarrow 180 \cdot \left(\frac{4}{9}\right) = 80$$