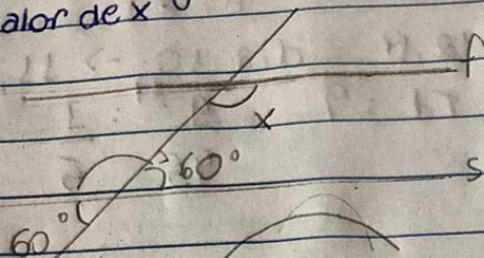


① valor de x



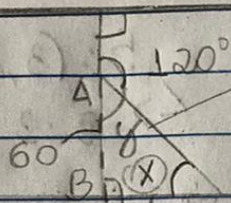
$$60^\circ + x = 180^\circ$$

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

$$x = 120^\circ$$

C //

②



$$y + 120 = 180$$

$$y = 180 - 120 = 60^\circ$$

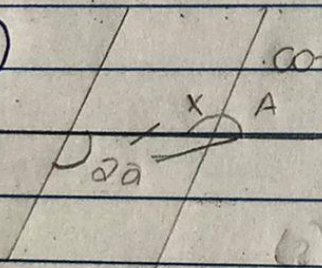
$$60 + 90 + x = 180$$

$$150 + x = 180$$

$$x = 180 - 150 = 30^\circ$$

B //

③



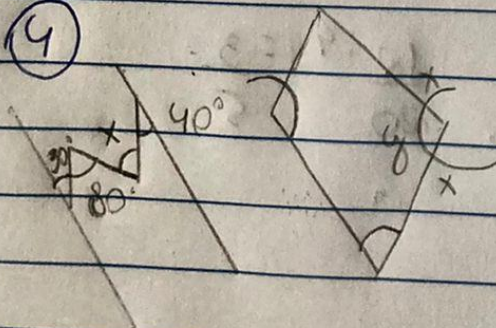
congruentes

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

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

$$x = 2 \cdot 60 = 120^\circ$$

④



Suplementares, ángulos

$$80 + 150 + y + 40 = 360^\circ \text{ internos}$$

$$y = 90^\circ$$

$$90 + x = 180 \Rightarrow x = 90^\circ$$

⑤ $\hat{\text{ângulo}} x, \frac{5}{4}, \text{suplemento} = 180^\circ$

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

$$4x = 900 - 5x$$

$$4x + 5x = 900$$

$$x = \frac{900}{9} = 100^\circ$$

⑥ Complemento = 90°

$$x = \frac{90 - x}{2} \quad 2x = 90 - x$$

$$2x + x = 90$$

$$3x = 90 = 30^\circ$$

A

⑦ Complemento = 90° , suplemento = 180°

$$3 \cdot (90 - x) = 180 - x \rightarrow 3 \cdot 3(90 - x) = 180 - x$$

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

$$810 - 9x = 180 - x$$

$$8x = 630$$

$$x = \frac{630}{8} = 78,75 \cdot 60$$

8

$$78^\circ 45'$$