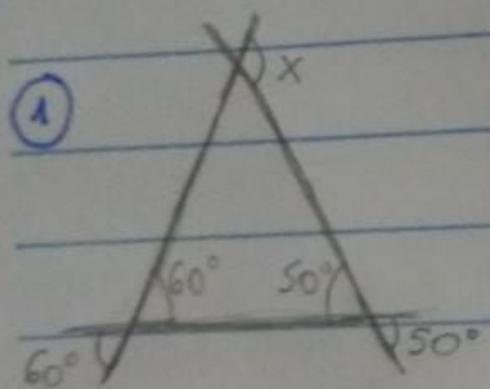


# Tarefa básica

## TRIÂNGULOS



Teorema dos ângulos externos

$$x = 60 + 50$$

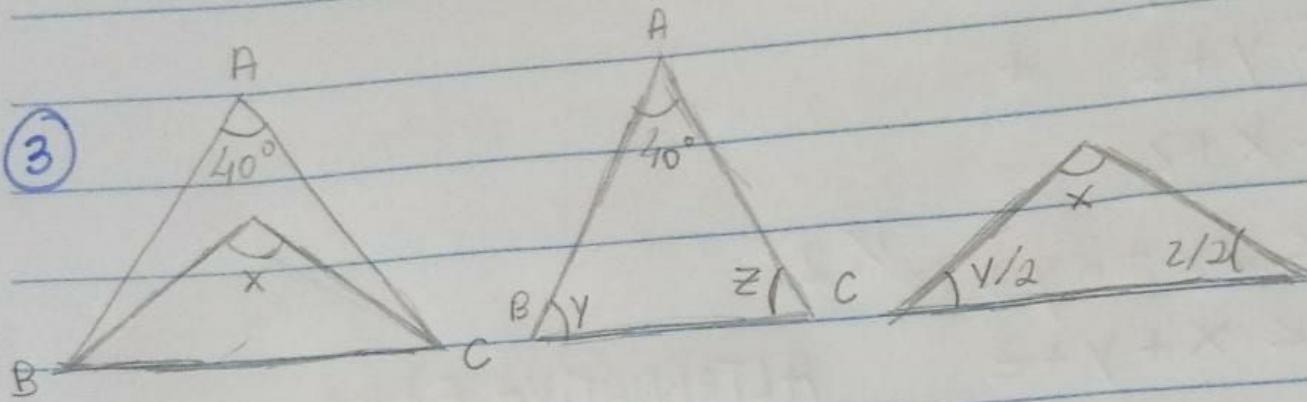
$$x = 110^\circ \text{ ALTERNATIVA C)}$$

② soma dos ângulos interiores =  $180^\circ$

$$3x + 4x + 5x = 180^\circ$$

$$12x = 180^\circ$$

$$x = \frac{180^\circ}{12} = 15^\circ \text{ ALTERNATIVA E )}$$



$$\begin{cases} 40^\circ + y + z = 180^\circ \\ x + y/2 + z/2 = 180^\circ, (-2) \end{cases}$$

$$\begin{cases} 40^\circ + y + z = 180^\circ \\ -2x - y - z = -360^\circ \end{cases}$$

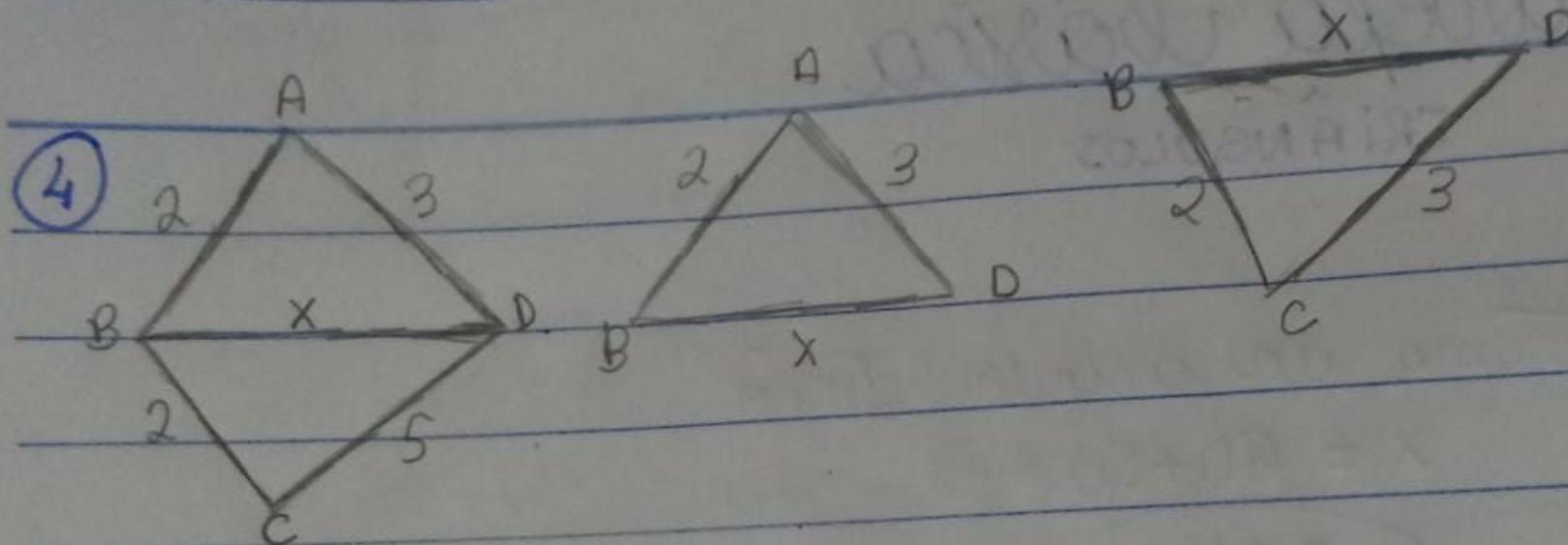
$$40^\circ - 2x = 180^\circ - 360^\circ$$

$$-2x = -180^\circ - 40^\circ$$

$$-2x = -220$$

$$x = \frac{-220}{-2} = 110^\circ$$

ALTERNATIVA D)



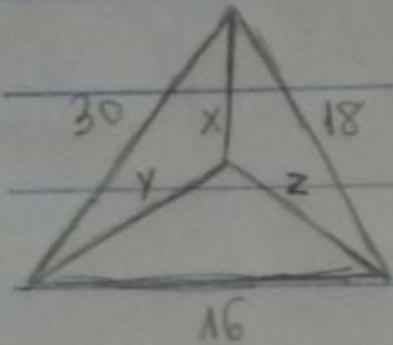
→ condição de existência

$$ABC: x < 3+2 \rightarrow x < 5$$

$$BCD: x < 5+2 \rightarrow x < 7$$

Alternativa E) 4 ( $4 < 5$  e  $4 < 7$ )

⑤  $x + y + z = ?$



condição de existência

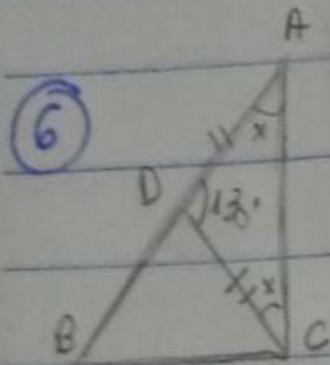
$$\left\{ \begin{array}{l} 30 < x + y \\ 16 < y + z \\ 18 < x + z \end{array} \right.$$

$$64 < 2x + 2y + 2z \quad | :2$$

$$32 < x + y + z$$

ALTERNATIVA E) 33

A



$$x + x + 130^\circ = 180^\circ$$

$$2x = 180^\circ - 130^\circ$$

$$2x = 50^\circ$$

$$\underline{x = \frac{50^\circ}{2} = 25^\circ} \rightarrow \hat{A} = 25^\circ$$

$$\hat{C} = 90^\circ + 25^\circ$$

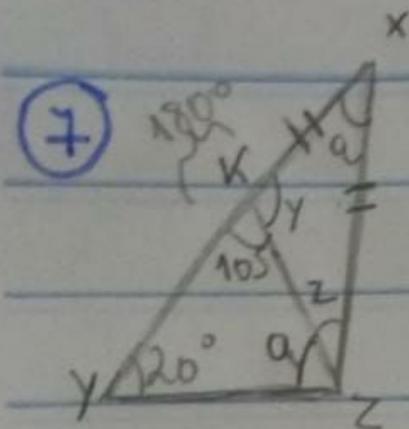
$$25^\circ + 115^\circ + y = 180^\circ$$

$$\hat{C} = 115^\circ$$

$$y = 180^\circ - 140^\circ$$

$$y = 40^\circ \rightarrow \hat{B} = 40^\circ$$

$$\hat{A} = 25^\circ, \hat{B} = 40^\circ, \hat{C} = 115^\circ$$



$$180^\circ - 105^\circ = y$$

$$y = 75^\circ$$

$$\alpha = x + 75^\circ$$

$$\alpha = 55^\circ + 75^\circ$$

$$\alpha = 130^\circ$$

$$20^\circ + \alpha + 105^\circ = 180^\circ$$

$$\hat{x} = 180^\circ - 125^\circ$$

$$\hat{x} = 55^\circ$$

$$75^\circ + 75^\circ + \hat{x} = 180^\circ$$

$$\hat{x} = 180^\circ - 150^\circ$$

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

$\angle = 55$

8

Diagram showing a triangle with two interior angles labeled  $x$  and one interior angle labeled  $20^{\circ}10'$ .

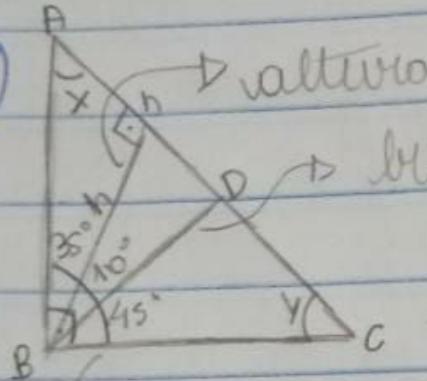
$$20^{\circ}10' = x + x$$
$$20^{\circ}10' = 2x$$
$$x = \frac{20^{\circ}10'}{2}$$

angulos

congunes

$$x = 10^{\circ}5' \text{ ALTERNATIVA B)}$$

⑨

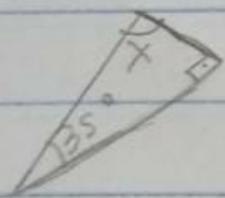


váltivo relativa à hipotenusa

bisetriz do ângulo reto

mitade do ângulo

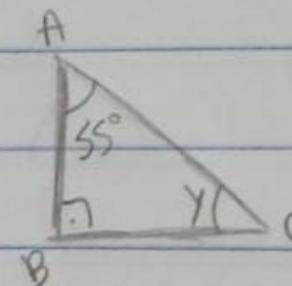
veto



$$x + 90^\circ + 35^\circ = 180^\circ$$

$$x = 180^\circ - 125^\circ$$

$$x = 55^\circ$$



$$55^\circ + 90^\circ + y = 180^\circ$$

$$y = 180^\circ - 145^\circ$$

$$y = 35^\circ$$