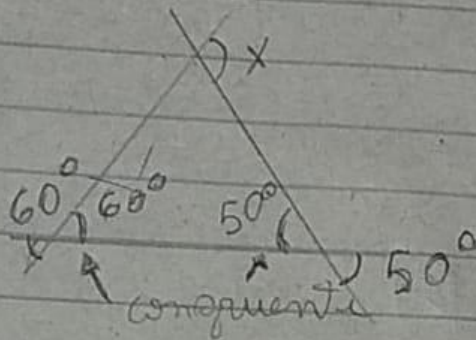


Triângulos

①



$$180^\circ - 60^\circ - 50^\circ = 70^\circ$$

$$\text{Ângulo reto } 180^\circ - 70^\circ = 110^\circ$$

Letra C

②

$$3x + 4x + 5x = 12x$$

$$180^\circ = 12x$$

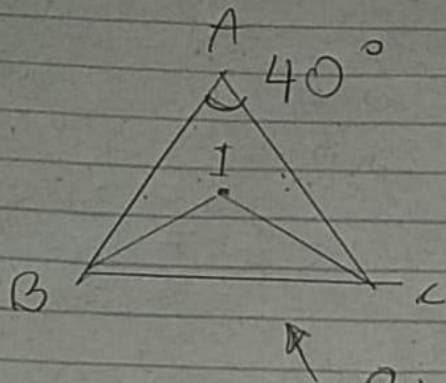
$$x = \frac{180^\circ}{12}$$

12

$$x = 15^\circ$$

Letra E

3.



$$\angle B = \angle C$$

$$180^\circ - 40 = 140^\circ$$

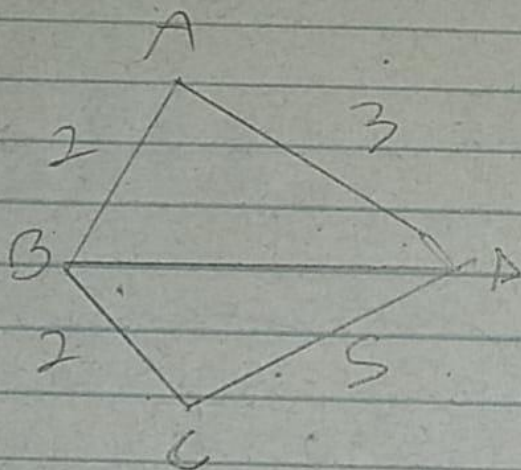
$$\frac{140}{2} = 70^\circ$$

$$180^\circ - 35^\circ \times 2 = 110^\circ$$

$$\frac{70}{2} = 35^\circ$$

Setro 12

4.



$$2 + 3 > BD$$

$$5 > BD$$

$$BD < 4$$

$$BD + 2 > 5$$

$$BD > 3$$

$$BD = 4$$

Setra E

5.

$$x + y > 30$$

$$x + z > 18$$

$$y + z > 16$$

$$2x + 2y + 2z > 64$$

$$x + y + z > 32$$

Setra E

6.

$$\hat{ADC} = 130^\circ$$

$$\hat{EDC} = 180^\circ - 130^\circ$$

$$\hat{BDC} = 50^\circ$$

$$\hat{B\hat{D}} = 90^\circ$$

$$\hat{DBC} = 180^\circ - (90^\circ + 50^\circ)$$

$$\hat{DBC} = 40^\circ$$

$$180^\circ - 130^\circ = 50^\circ$$

$$\hat{DAC} = \frac{50^\circ}{2} = 25^\circ$$

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

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

40°, 25° e 115°

7.

$$\hat{Y} = 20^\circ$$

$$\hat{YKZ} = 105^\circ$$

$$\hat{XKZ} = 180^\circ - 105^\circ = 75^\circ$$

$$\hat{XZK} = \hat{XKZ}$$

$$\hat{X} = 180^\circ - (2 \cdot 75^\circ)$$

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

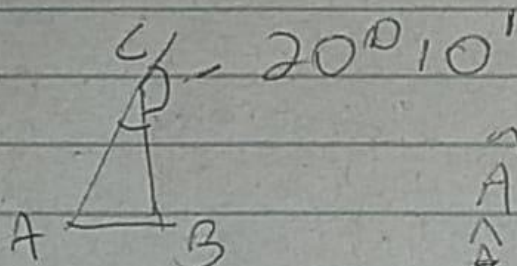
$$180^\circ - 20^\circ - 105^\circ = 55^\circ$$

$$\hat{Z} = 55^\circ + 75^\circ$$

$$\hat{Z} = 130^\circ$$

$$30^\circ \text{ e } 130^\circ$$

8.



$$\hat{A} + \hat{B} = 20^\circ 10'$$

$$\hat{A} = \hat{B}$$

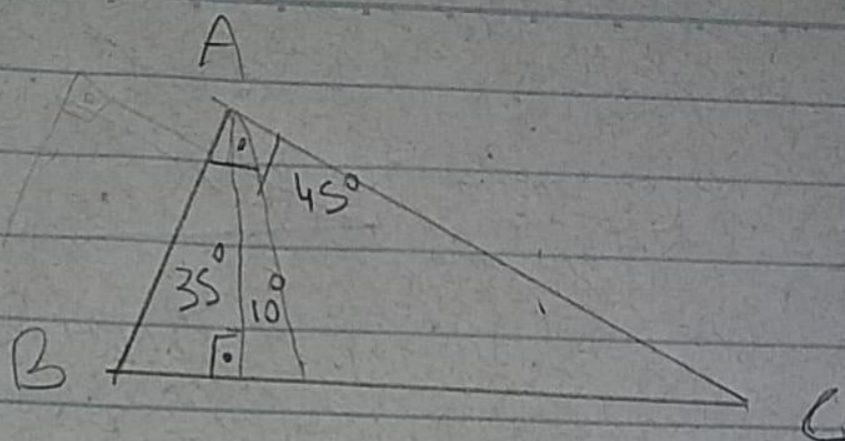
$$\hat{A} = 10^\circ 05'$$

$$\text{Se } \hat{A} \neq \hat{B}$$

$$\hat{A} + \hat{B} + \hat{C} < 180^\circ$$

Setro B

9.



$$\angle A = 35^\circ + 90^\circ = 125^\circ$$

$$\angle B = 180^\circ - 125^\circ$$

$$\angle B = 55^\circ$$

$$90^\circ + 55^\circ = 145^\circ$$

$$\angle C = 180^\circ - 145^\circ$$

$$\angle C = 35^\circ$$

55° e 35°