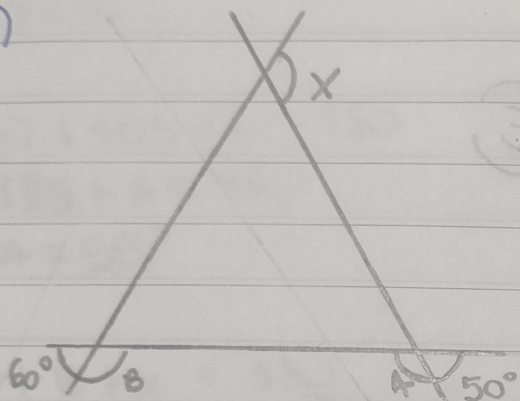


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Tarefa Básica.

1)



$$60 + B = 180$$

$$B = 180 - 60$$

$$B = 120^\circ$$

$$50 + A = 180$$

$$A = 180 - 50$$

$$A = 130^\circ$$

$$120 + 130 + x = 360$$

$$x = 360 - 250$$

$$x = \underline{110^\circ}$$

2)

$$3x + 4x + 5x = 180$$

$$12x = 180$$

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

$$x = 15^\circ$$

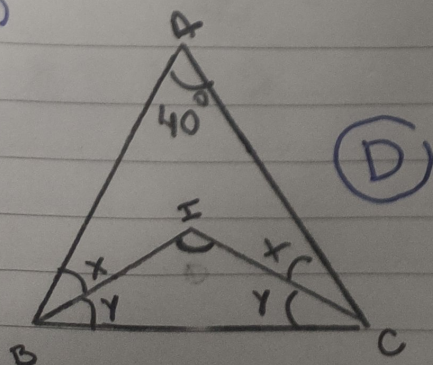
$$3x = 3 \cdot 15 = 45^\circ$$

$$4x = 4 \cdot 15 = 60^\circ$$

$$5x = 5 \cdot 15 = 75^\circ$$

(E)

3)



$$40 + x + x = 180$$

$$40 + 2x = 180$$

$$2x = 140$$

$$x = \frac{140}{2}$$

$$x = 70^\circ$$

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

$$\hat{I} + 35 + 35 = 180$$

$$\hat{I} = 180 - 70$$

$$\hat{I} = \underline{110^\circ}$$

4)
 $\triangle ABD$:

$$2-3 < x < 2+3 \rightarrow 1 < x < 5$$

$\triangle BCD$:

$$2-5 < x < 2+5 \rightarrow 3 < x < 7$$

Logo: $3 < x < 5$ $x=4$

(E)

5)

$$30 < x+y$$

$$18 < x+z$$

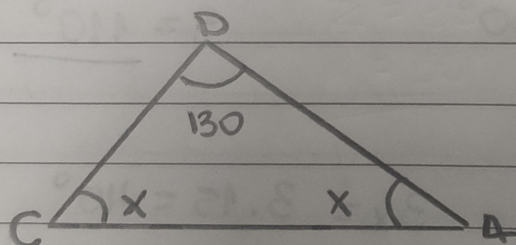
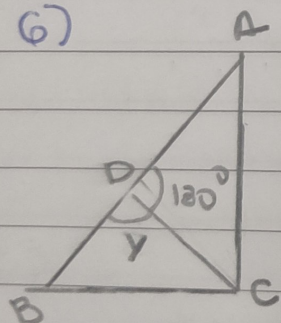
$$16 < y+z$$

$$64 < 2x + 2y + 2z \times 2$$

$$32 < x+y+z$$

(E) 33

6)



$$130 + x + x = 180$$

$$2x = 180 - 130$$

$$x = \frac{50}{2} = 25^\circ$$

$$130 + y = 180$$

$$y = 50^\circ$$

$$z + y + 90 = 180$$

$$z + 50 + 90 = 180$$

$$z = 40^\circ$$

$$A + B + C = 180$$

$$25 + 40 + C = 180$$

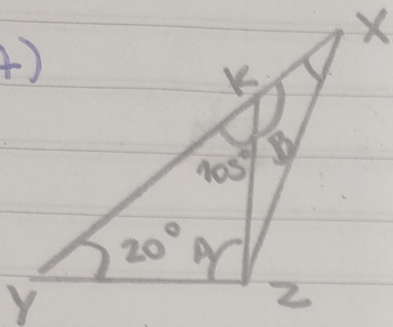
$$C = 115^\circ$$

$$A = 25^\circ$$

$$B = 40^\circ$$

$$C = 115^\circ$$

7)



ΔYKZ

$$20 + 105 + A = 180$$

$$105 + B = 180$$

$$125 + A = 180$$

$$B = 75^\circ = Y + X$$

$$A = 55^\circ$$

$$B + B + X = 180$$

$$Z = A + X$$

$$2 \cdot 75 + X = 180$$

$$Z = 55 + 75$$

$$X = 180 - 150$$

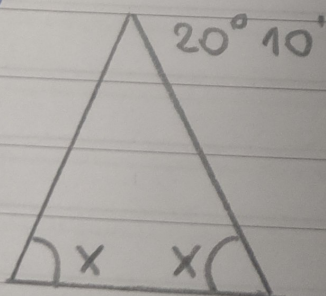
$$Z = 130^\circ$$

$$X = 30^\circ$$

$$X = 30^\circ$$

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

8)



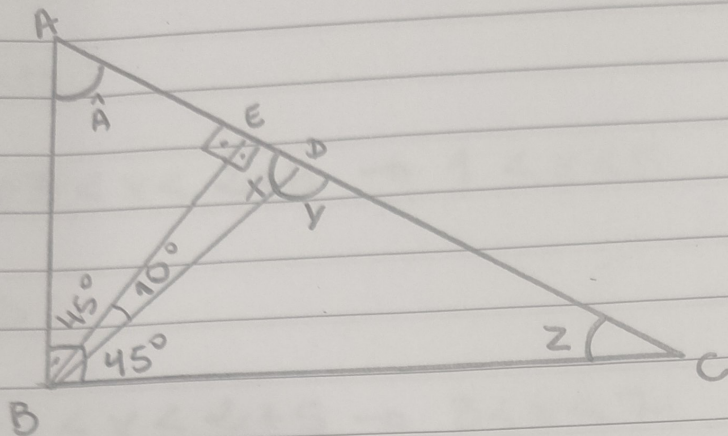
$$2x = 20^\circ 10'$$

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

$$\underline{\underline{x = 10^\circ 5'}}$$

(B)

9)



$\triangle EDB$

$$10 + 90 + x = 180$$

$$x = 180 - 100$$

$$x = 80^\circ$$

$$x + y = 180$$

$$80 + y = 180$$

$$y = 100^\circ$$

$\triangle BCD$

$$100 + 45 + z = 180$$

$$z = 180 - 145$$

$$z = 35^\circ$$

$\triangle ABC$

$$90 + 35 + \hat{A} = 180$$

$$125 + \hat{A} = 180$$

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

$$z = 35^\circ$$

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