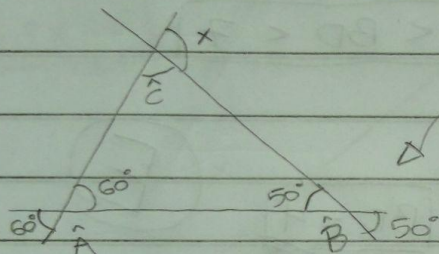


## Tarefa Básica - Aula 1

### Triângulos

1.



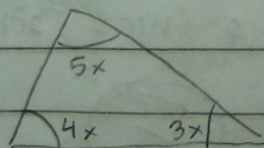
$$\hat{A} + \hat{B} = \text{Ex} \hat{C}$$

$$60^\circ + 50^\circ = x$$

$$x = 110^\circ$$

(C)

2.



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

$$12x = 180^\circ$$

$$x = 180^\circ / 12$$

$$x = 15^\circ$$

(E)

3.  $\triangle ABC$ :

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

$$40^\circ + \hat{B} + \hat{C} = 180^\circ$$

$$\hat{B} + \hat{C} = 140^\circ$$

BI e CI são

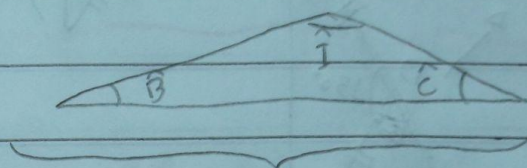
bissetrizes de  $\hat{B}$  e  $\hat{C}$ ,

Logo:

$$\angle IBC + \angle ICB = 140^\circ / 2$$

$$\angle IBC + \angle ICB = 70^\circ$$

→



$$\hat{B} + \hat{C} + \hat{I} = 180^\circ$$

$$70^\circ + \hat{I} = 180^\circ$$

$$\hat{I} = 180^\circ - 70^\circ = 110^\circ$$

$$\angle BIC = 110^\circ$$

(D)



4.  $\triangle ABD$ :

$$|2-3| < BD < 2+3$$

$$1 < BD < 5$$

número natural

$$3 < BD < 5$$

$$3 < 4 < 5 \rightarrow$$

$$BD = 4$$

(E)

calcular  $\triangle BCD$

$$|2-5| < BD < 2+5$$

$$3 < BD < 7$$

5. Considerando que:  $\triangle ABC \rightarrow A < B+C$ , logo:

$$30 < x+y$$

$$+ 18 < x+z$$

$$16 < y+z$$

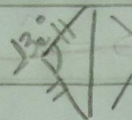
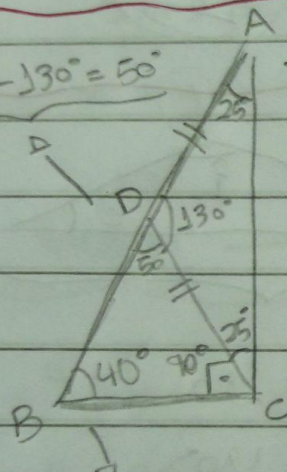
$$64 < 2x+2y+2z \div 2$$

$$32 < x+y+z$$

$x+y+z$  deve ser maior que (32), logo a alternativa correta é (E) 33, sendo a única acima de 32.

(E)

6.  $180^\circ - 130^\circ = 50^\circ$



iguais  $\rightarrow 2\hat{A} + 130^\circ = 180^\circ$

$$2\hat{A} = 50^\circ$$

$$\hat{A} = 50^\circ / 2 = 25^\circ$$

$$90^\circ + 25^\circ = 115^\circ$$

$$\hat{B} + 50^\circ + 90^\circ = 180^\circ$$

$$\hat{B} = 180^\circ - 140^\circ = 40^\circ$$

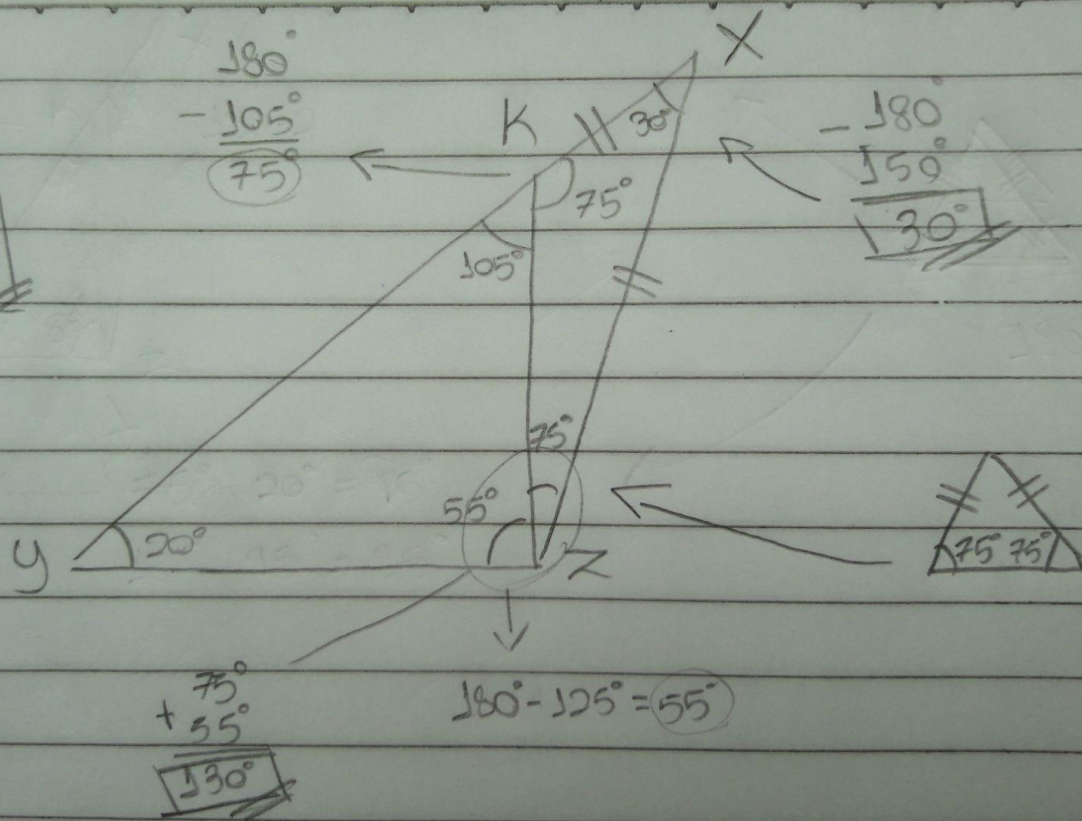
$$\begin{array}{l} \hat{A} = 25^\circ \\ \hat{B} = 40^\circ \\ \hat{C} = 115^\circ \end{array}$$



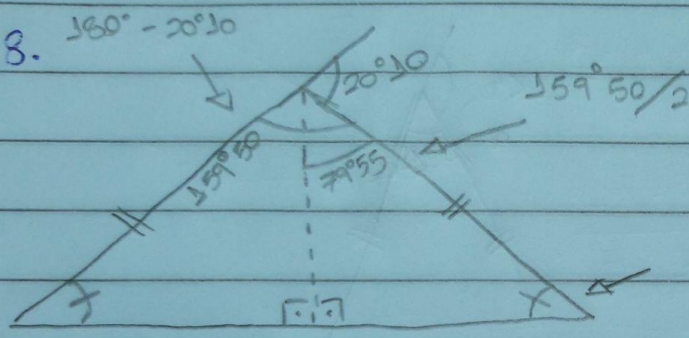
7.

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

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



8.

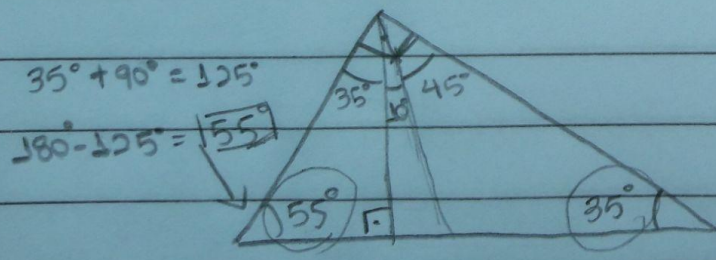


(B)

$$\begin{array}{r} 79^\circ 55' \\ + 90^\circ 00' \\ \hline 169^\circ 55' \end{array}$$

$$\begin{array}{r} 180^\circ 00' \\ - 169^\circ 55' \\ \hline 10^\circ 05' \end{array}$$

9.



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

$$180^\circ - 145^\circ = 35^\circ$$

$$\boxed{35^\circ \text{ e } 55^\circ}$$