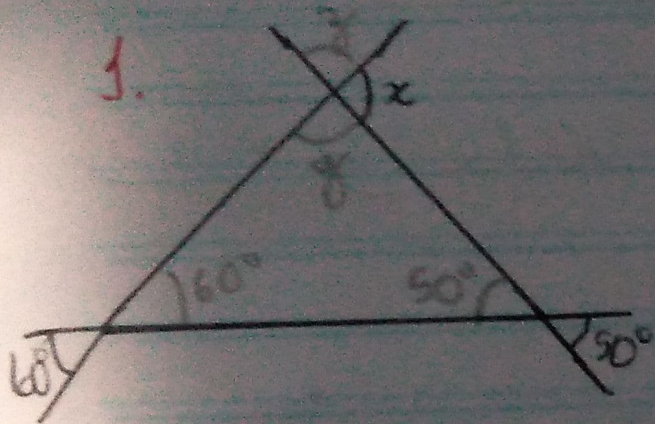


Nome: Rodrigo Moreira da Silva Sol CTII 317

Tarefa Básica - triângulos



$$y = 180 - (60 + 50) \rightarrow 180 - 110 - y = 70^\circ$$

$$y = 70$$

$$z = 360 - (y + x) / 2 \rightarrow 360 - (70 + 30) / 2$$

$$z = 360 - 140 / 2 \rightarrow 220 / 2$$

$$\boxed{z = 110^\circ}$$

R: c)

2.

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

$$12x = 180$$

$$x = \frac{180}{12} = 15$$

$$12$$

R: e)



3.

$$B + C = 180^\circ - 40^\circ = 140^\circ$$

$$I + 70^\circ = 180^\circ$$

$$I = 180 - 70$$

R. d /

$$\frac{(B+C)}{2} = \frac{140^\circ}{2} = 70^\circ$$

$$I = 110^\circ$$

4.

$$\triangle ABD: 2+3 > x > 3+2$$

$$5 > x > 1$$

$$3 < x < 5 \quad \text{R. e)}$$

$$\triangle BCD: 2+5 > x > 5-2$$

$$7 > x > 3$$

$$\boxed{x=4}$$

5.

$$30 < x+y$$

$$18 < x+z$$

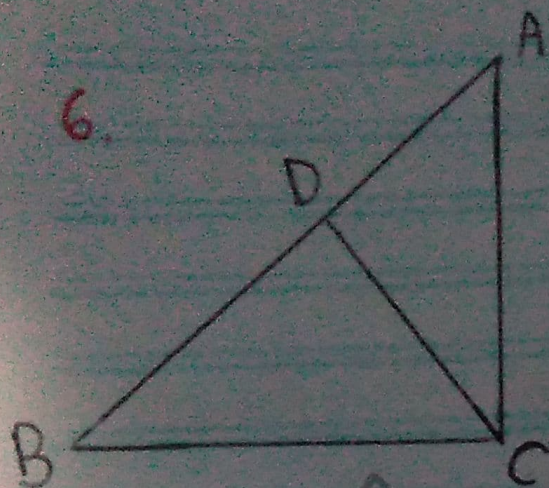
$$16 < y+z$$

$$64 < 2x+2y+2z = 30 < x+y+z = 33$$

R. e)



6.



$$\hat{BCD} = 90^\circ \quad \hat{ADC} = 130^\circ$$

$$\hat{BDC} = 180 - 130 = 50^\circ$$

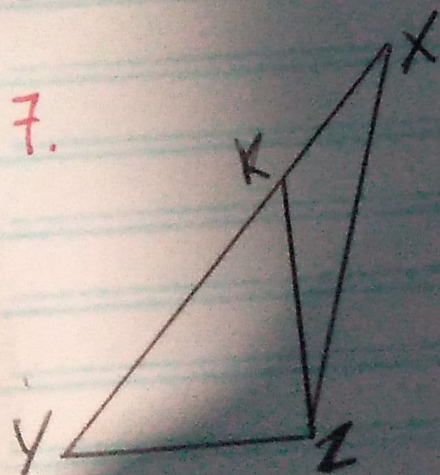
$$B = (90 + 50) - 180 \rightarrow 140 - 180$$

$$\boxed{B = 40^\circ}$$

$$\hat{CAD} = \hat{ADC} \quad A = (180 - 130) / 2 \rightarrow 50 / 2 \quad \boxed{A = 25}$$

$$C = 90 + 25 \quad \boxed{C = 115^\circ}$$

7.



$$Y = 20^\circ \quad \hat{YKX} = 105^\circ$$

$$\hat{YZK} = 180 - (105 + 20) \rightarrow 180 - 125$$

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

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

$$\hat{Z} = 55^\circ + 75^\circ \rightarrow \boxed{\hat{Z} = 130^\circ} \quad \hat{X} = 180 - 150 \rightarrow \boxed{\hat{X} = 30^\circ}$$



$$\hat{Z} = 55^\circ + 75^\circ \rightarrow \boxed{\hat{Z} = 130^\circ} \quad \hat{X} = 180 - 150 \rightarrow \boxed{\hat{X} = 30^\circ}$$

8.

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

R: b)

$$20^\circ 10' = 2b \quad a = 180 - 20^\circ 10'$$

$$b = 10^\circ 5'$$

$$a = 180 - 2b \quad 180^\circ = 179^\circ 60' \quad a = 179^\circ 50'$$

9.

$$EDB: 180^\circ - 10^\circ - 90^\circ = 80^\circ \quad DBC: 45^\circ$$

$$CDB: 180^\circ - 80^\circ = 100^\circ$$

$$DCB: 180^\circ - 100^\circ - 45^\circ = 35^\circ$$

$$GAB: 180^\circ - 90^\circ - 35^\circ = 55^\circ$$