

$$\theta = 180^\circ - 30^\circ - 90^\circ$$

$$\theta = 60^\circ$$

$$\alpha = 180^\circ - 45^\circ - 90^\circ$$

$$\alpha = 45^\circ$$

$$\frac{x}{\text{sen}(60^\circ)} = \frac{h}{\text{sen}(30^\circ)}$$

$$\frac{200 - x}{\text{sen}(45^\circ)} = \frac{h}{\text{sen}(45^\circ)}$$

$$x = \frac{h \cdot \text{sen}(60^\circ)}{\text{sen}(30^\circ)}$$

$$200 - x = \frac{h \cdot \text{sen}(45^\circ)}{\text{sen}(45^\circ)}$$

$$x = 1.73h$$

$$200 - x = h$$

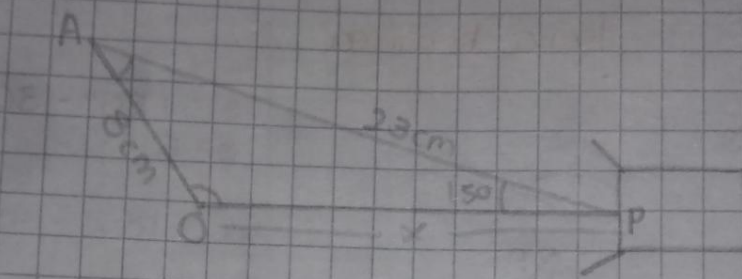
$$x = 200 - h$$

$$200 - h = 1.73h$$

$$200 = 1.73h + h$$

$$200 = 2.73h$$

$$h = \frac{200}{2.73} = 73.1 \text{ m}$$



$$\frac{8}{\sin(15^\circ)} = \frac{23}{\sin O}$$

$$A = 180^\circ - 15^\circ - 48^\circ$$

$$A = 117^\circ$$

$$30.90 = \frac{23}{\sin O}$$

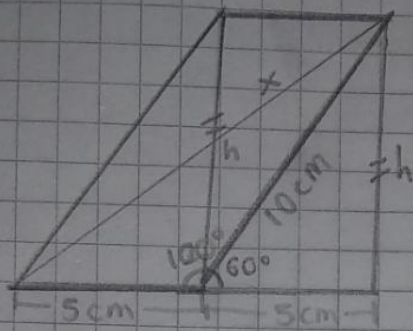
$$\text{At } \sin O = \frac{23}{30.90}$$

$$\frac{8}{\sin(15^\circ)} = \frac{x}{\sin(117^\circ)}$$

$$O = 48^\circ$$

$$x = \frac{8 \cdot \sin(117^\circ)}{\sin(15^\circ)}$$

$$x = 23.54 \rightarrow 23.63 \text{ cm}$$



$$\text{sen}(60^\circ) = \frac{h}{10}$$

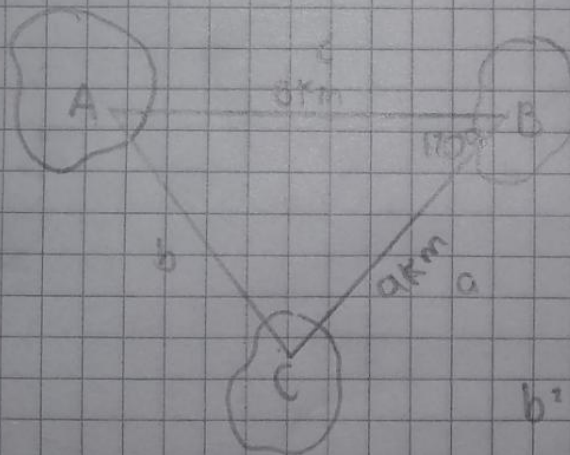
$$h = 10 \cdot \text{sen}(60^\circ)$$

$$h = 8.66 \text{ cm}$$

$$x^2 = 5^2 + 10^2 - 2 \cdot 5 \cdot 10 \cdot \cos(120^\circ)$$

$$x = \sqrt{125 - 100 \cdot (-0.5)}$$

$$x = 13.22 \text{ cm}$$



$$b^2 = 9^2 + 6^2 - 2 \cdot 9 \cdot 6 \cdot \cos(120^\circ)$$

$$b = \sqrt{117 - 108 \cdot (-0.5)}$$

$$b = 13.07 \text{ km}$$

