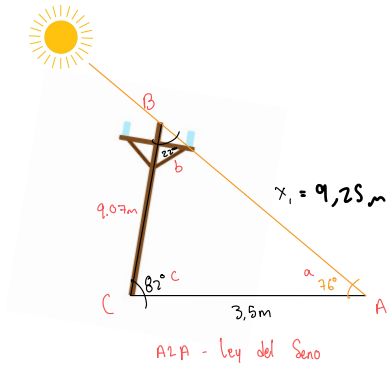


03 - ley de Senos y Cosenos.

1.



ley del Seno.

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

entonces:

$$\frac{3,5m}{\sin 22^\circ} = \frac{a}{\sin 76^\circ}$$

$$a = \frac{3,5m \sin 76^\circ}{\sin 22^\circ}$$

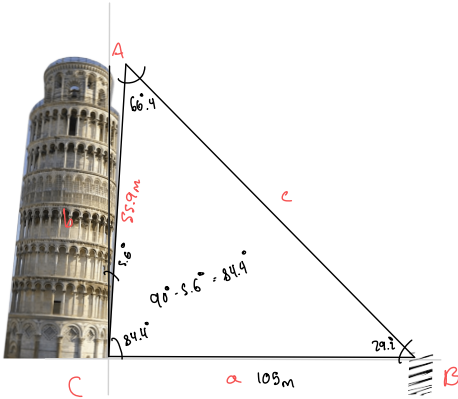
$$a = 9,07m$$

$$y: \frac{c}{\sin 82^\circ} = \frac{3,5m}{\sin 22^\circ}$$

$$c = \frac{3,5m \sin 82^\circ}{\sin 22^\circ}$$

$$c = 9,25m$$

2.

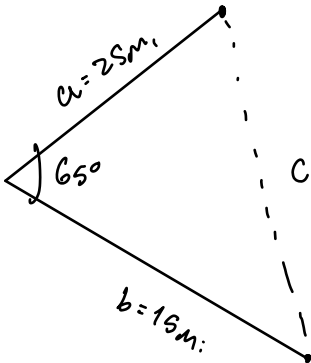


$$\frac{105}{\sin 66.4^\circ} = \frac{b}{\sin 29.2^\circ}$$

$$b = \frac{105 \sin 29.2^\circ}{\sin 66.4^\circ}$$

$$b \approx 55.90 \text{ m}$$

3.



$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$c^2 = 25^2 + 15^2 - 2(25)(15) \cos (65^\circ)$$

$$c^2 = 625 + 225 - 315$$

$$c^2 = 535$$

$$c = \sqrt{535} \approx 23.13 \text{ m}$$