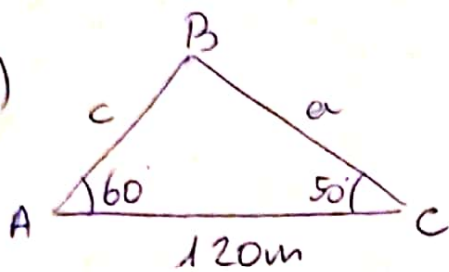


1-

a)

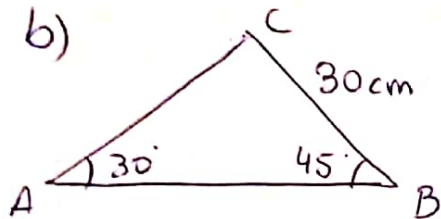


$$B = 180 - A - C = 70^\circ$$

$$\frac{\sin 70}{120} = \frac{\sin 50}{c} \Rightarrow c = \frac{\sin 50 \cdot 120}{\sin 70} = 97'825 \text{ m}$$

$$\frac{\sin 60}{a} = \frac{\sin 70}{120} \Rightarrow a = \frac{120 \cdot \sin 60}{\sin 70} = 110'59 \text{ m}$$

b)

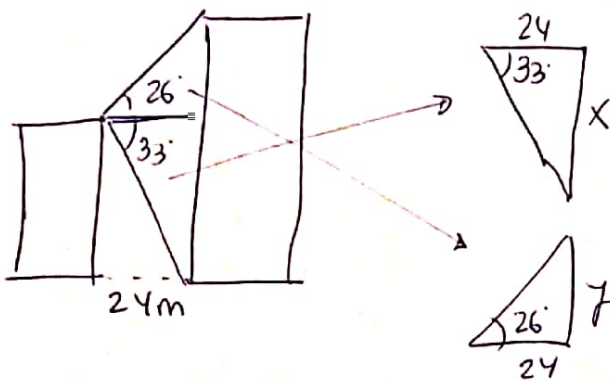


$$C = 180 - A - B = 105^\circ$$

$$\frac{\sin 45}{b} = \frac{\sin 30}{30} \Rightarrow b = \frac{30 \cdot \sin 45}{\sin 30} = 42'43 \text{ cm}$$

$$\frac{\sin 30}{30} = \frac{\sin 105}{c} \Rightarrow c = \frac{30 \cdot \sin 105}{\sin 30} = 57'96 \text{ cm}$$

2-

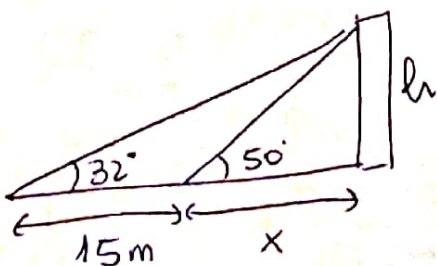


$$\text{tg } 33 = \frac{x}{24} \Rightarrow x = 15'59 \text{ m}$$

$$\text{tg } 26 = \frac{y}{24} \Rightarrow y = 11'71 \text{ m}$$

El edificio 1 mide 15'59m, el edificio 2 mide $x + y = 27'3 \text{ m}$

3-



$$\left. \begin{aligned} \text{tg } 32 &= \frac{h}{x+15} \rightarrow h = (x+15) \text{tg } 32 \\ \text{tg } 50 &= \frac{h}{x} \rightarrow h = x \text{tg } 50 \end{aligned} \right\}$$

$$(x+15) \text{tg } 32 = x \text{tg } 50 \Rightarrow x = 16'53 \text{ m}$$

$$h = 16'53 \cdot \text{tg } 50 \Rightarrow h = 19'7 \text{ m}$$

la torre mide 19'7m