

$$\tan \theta = \frac{o}{a}$$

$$\tan 62^\circ = \frac{x}{56}$$

$$\frac{1.8807}{1} = \frac{x}{56}$$

$$x = 105.3 \text{ m}$$

$$\tan \theta = \frac{o}{a}$$

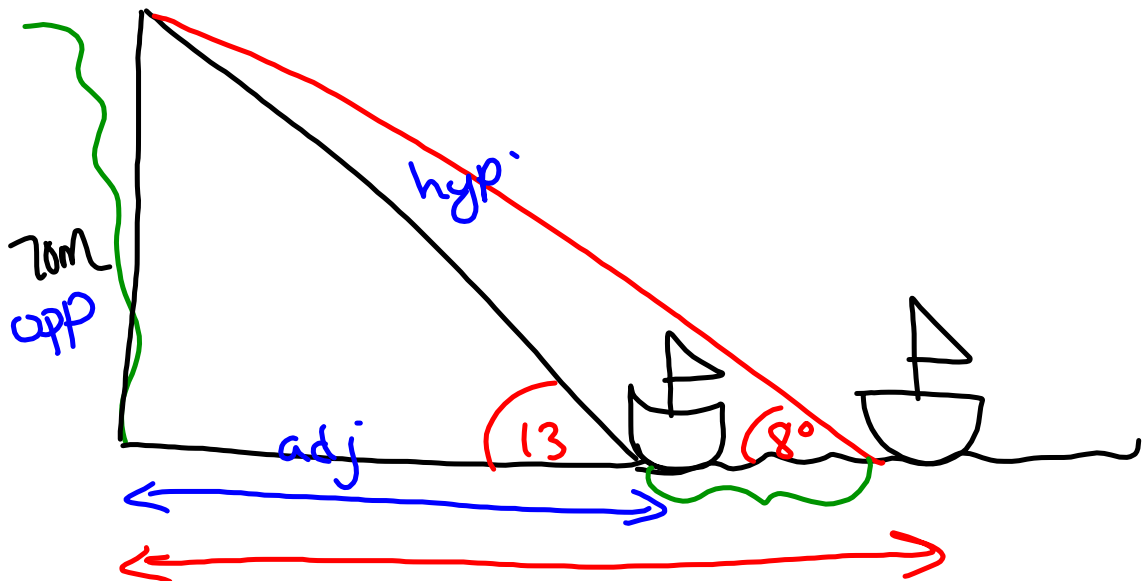
$$\tan 58^\circ = \frac{x}{56}$$

$$\frac{1.6003}{1} = \frac{x}{56}$$

$$x = 89.6 \text{ m}$$

$$105.3 - 89.6$$

$$= 15.7 \text{ m}$$



$$\tan \theta = \frac{o}{a}$$

$$\tan 13^\circ = \frac{70}{x}$$

$$\frac{0.2309x}{0.2309} = \frac{70}{0.2309}$$

Closer →  $x = 303.2\text{m}$

$$\tan \theta = \frac{o}{a}$$

$$\tan 8^\circ = \frac{70}{x}$$

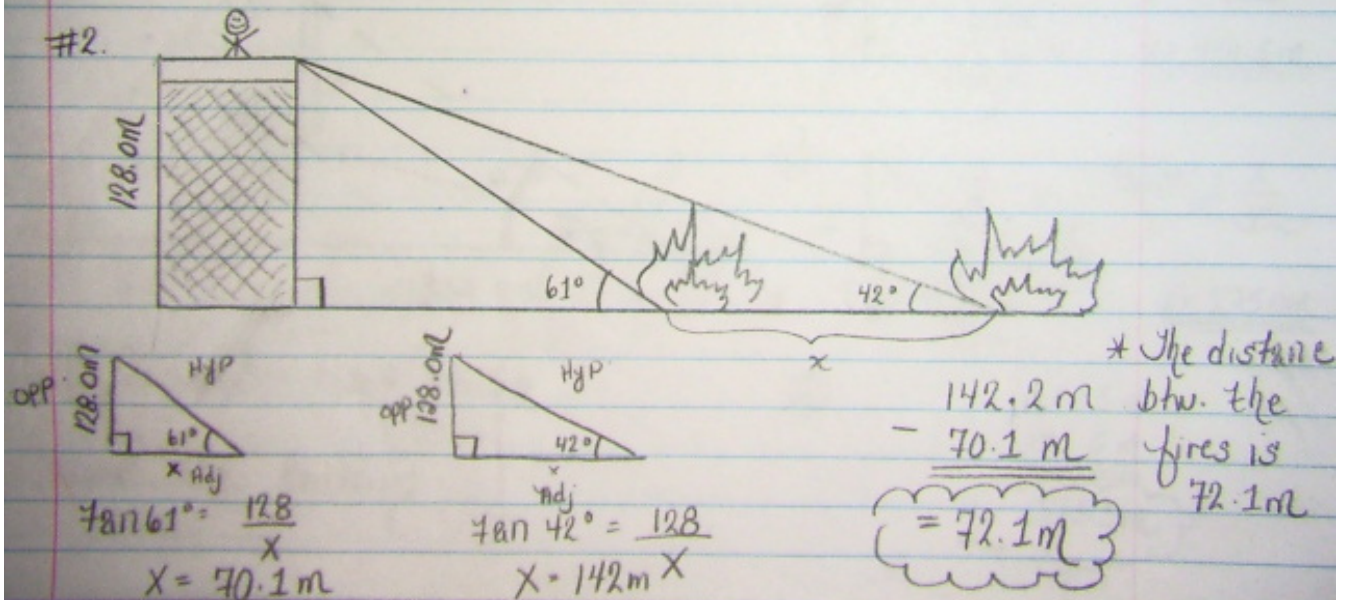
$$\frac{0.1405x}{0.1405} = \frac{70}{0.1405}$$

$$x = 498.1$$

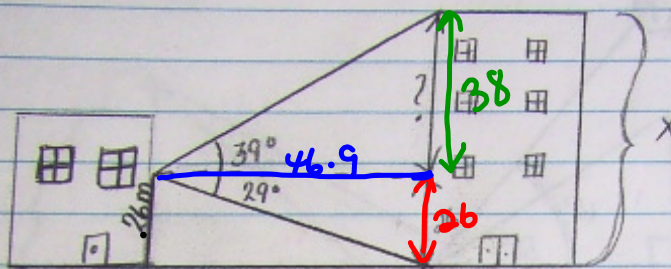
$$\begin{array}{r} 498.1 \\ - 303.2 \\ \hline = 194.9\text{m} \end{array}$$

→ Between Boats.

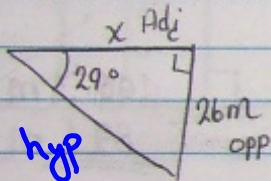
- > The horizontal distance is 3761.5m.
- => The distance btw. the plane and the tower 3933.3m.



#3.



1st



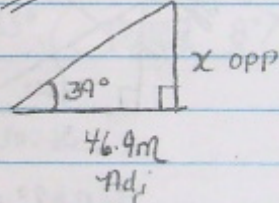
$$\tan 29^\circ = \frac{26}{x}$$

$$0.5543x = 26$$

$$x = \frac{26}{0.5543}$$

$$x = 46.9m$$

2nd



$$\tan 39^\circ = \frac{x}{46.9}$$

$$0.8098x = 46.9$$

$$x = \frac{46.9}{0.8098}$$

$$x = 38.0m$$

3rd

$$+ \frac{38.0m + 26m}{64.0m}$$