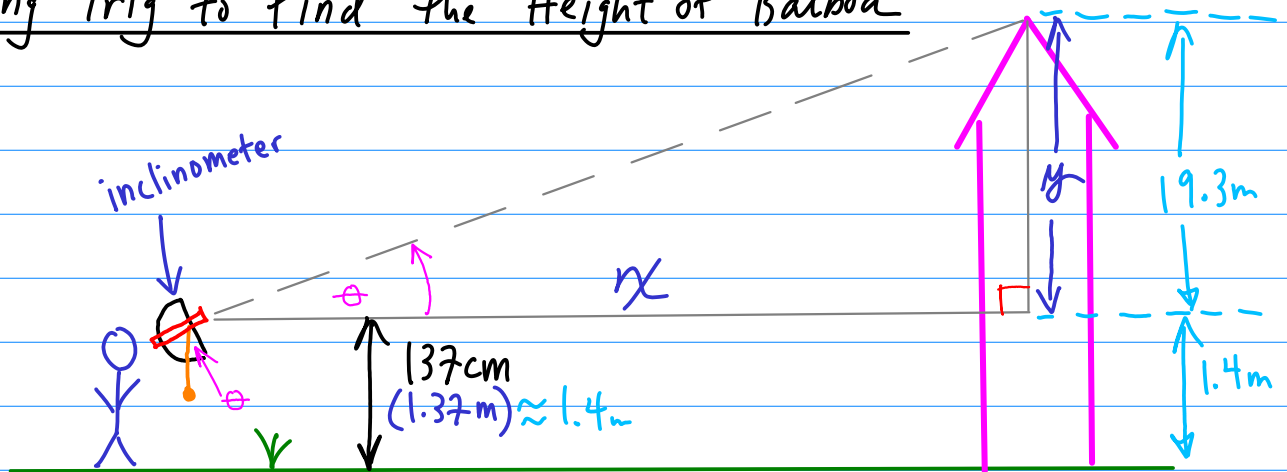
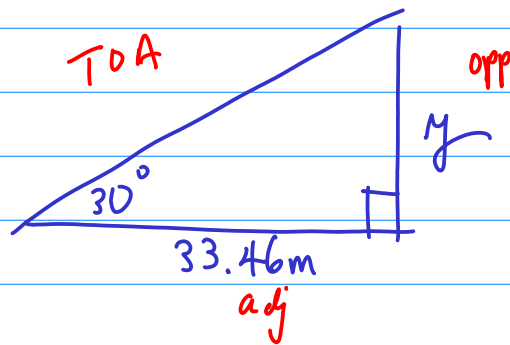


# Using Trig to Find the Height of Balboa



- $\theta$
- 30°
  - 30°
  - 30°
  - 30°
  - 31°
  - 31°
  - 30°
  - ~~26°~~ outlier
- Mean:  $\approx 30^\circ$

$$x = 33.46m$$



$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\tan 30^\circ = \frac{y}{33.46m}$$

$$.5773 = \frac{y}{33.46m}$$

$$y = 19.3m$$

$$h_{\text{BALBOA}} = 19.3m + 1.4m = 20.7m$$

$$1ft = 12"$$

$$1yd = 3ft$$

$$1m = 3.28ft$$

$$20.7m = 68ft$$