

## Word Problems Angles of Elevation and Depression

1) A woman is standing on the ground at a point 78ft from the base of a building. The angle of elevation to the top of the building is  $57^\circ$ . To the nearest foot, how high is the building?

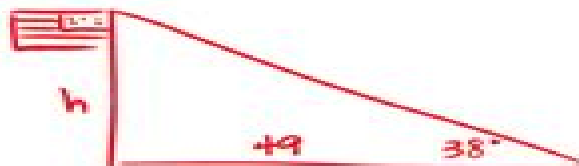


$$\tan 57^\circ = \frac{h}{78}$$

$$h = 78 \tan 57^\circ$$

$$h \approx 120 \text{ ft}$$

2) The sun shines on a flagpole, causing a shadow to be cast on the ground. The distance from the base of the pole to the tip of the shadow is 49 feet. At that time of day, the sun's rays make an angle of  $38^\circ$  with the ground. How tall is the flagpole?

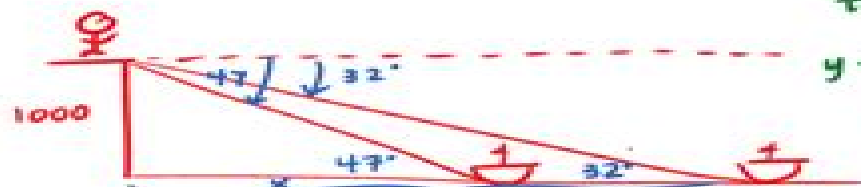


$$\tan 38^\circ = \frac{h}{49}$$

$$h = 49 \tan 38^\circ$$

$$h \approx 38.3 \text{ ft}$$

3) An observer on a cliff 1000 dm above sea level sights two ships due east. The angles of depression of the ships are  $47^\circ$  and  $32^\circ$ . Find, to the nearest decimeter, the distance between the two ships.



$$\tan 32^\circ = \frac{1000}{y}$$

$$y \tan 32^\circ = 1000$$

$$y = \frac{1000}{\tan 32^\circ}$$

$$\tan 47^\circ = \frac{1000}{x}$$

$$x \tan 47^\circ = 1000$$

$$x = \frac{1000}{\tan 47^\circ}$$

$$\text{ans: } 668 \text{ dm}$$

4) A 200 ft high television transmitting tower is to be supported by guy wires running from the ground to the top of the tower. The wires make an angle of  $63^\circ$  with the ground.

a) How long is each wire?

b) How far from the base of the tower must they meet the ground?

$$a. \sin 63^\circ = \frac{200}{w}$$

$$w \sin 63^\circ = 200$$

$$w = \frac{200}{\sin 63^\circ}$$

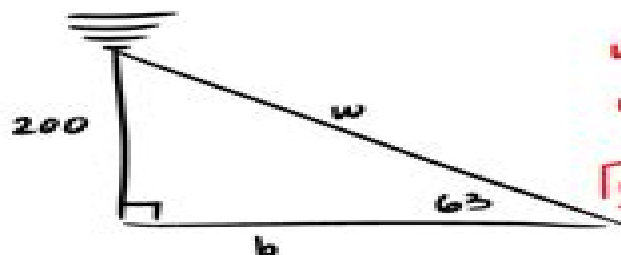
$$w \approx 224.5 \text{ ft}$$

$$b. \tan 63^\circ = \frac{200}{b}$$

$$b \tan 63^\circ = 200$$

$$b = \frac{200}{\tan 63^\circ}$$

$$b \approx 101.9 \text{ ft}$$



# Questions Answered On The Problems Of

**John Goldingay**



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