

Angle of Elevation and Depression Worksheet 2

Name: _____

Draw a picture to represent each situation, then use angles of elevation or depression to find the missing value.

1. At a point on the ground 50 feet from the front of a tree, the angle of elevation to the top of the tree is 48° . Find the height of the tree.



$$\begin{aligned}\theta &= 48 \\ 50 &= \text{adj} \\ x &= \text{opp} \\ \tan(48) &= \frac{x}{50} \\ 50 \cdot \tan(48) &= x\end{aligned}$$

$$x = 55.5 \text{ ft}$$

2. A ladder is leaning against a wall. The foot of the ladder is 6.5 feet from the wall. The ladder makes an angle of 74° with the level ground. How high on the wall does the ladder reach?



$$\begin{aligned}\theta &= 74 \\ 6.5 &= \text{adj} \\ x &= \text{opp} \\ \tan(74) &= \frac{x}{6.5} \\ 6.5 \cdot \tan(74) &= x\end{aligned}$$

$$x = 22.7 \text{ ft}$$

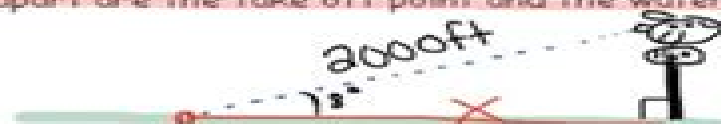
3. A wooden beam 24 feet long leans against a wall and makes an angle of 71° with the ground. How high up the wall does the beam reach?



$$\begin{aligned}\theta &= 71 \\ 24 &= \text{hyp} \\ x &= \text{opp} \\ \sin(71) &= \frac{x}{24} \\ 24 \cdot \sin(71) &= x\end{aligned}$$

$$x = 22.7$$

4. A plane took off from a field and rose at an angle of 8° with the horizontal ground. As the plane flies over a water tower, it has covered a distance from the take off point of 2000 feet. How far apart are the take off point and the water tower?



$$\begin{aligned}\theta &= 8 \\ 2000 &= \text{hyp} \\ x &= \text{adj} \\ \cos(8) &= \frac{x}{2000} \\ 2000 \cdot \cos(8) &= x\end{aligned}$$

$$x = 1980.5 \text{ ft}$$

5. A 20-foot ladder leans against a building and makes an angle of 72° with the ground. Find the distance between the foot of the ladder and the building.



$$\begin{aligned}\theta &= 72 \\ 20 &= \text{hyp} \\ x &= \text{adj} \\ \cos(72) &= \frac{x}{20} \\ 20 \cdot \cos(72) &= x\end{aligned}$$

$$x = 6.2 \text{ ft}$$

6. A straight road to the top of a hill is 2500 feet long and makes an angle of 12° with the horizontal. Find the height of the hill.

$$x = 519.8 \text{ ft}$$

$$\begin{aligned}\theta &= 12 \\ 2500 &= \text{hyp} \\ x &= \text{opp} \\ \sin(12) &= \frac{x}{2500} \\ 2500 \cdot \sin(12) &= x\end{aligned}$$



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Jicheng Xie



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