

# 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  $48^\circ$ . 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  $74^\circ$  with the level ground. How high on the wall does the ladder reach?



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

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

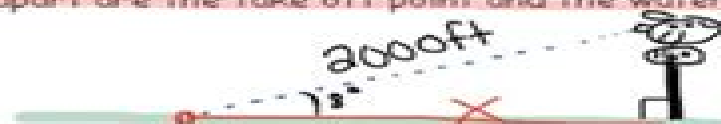
3. A wooden beam 24 feet long leans against a wall and makes an angle of  $71^\circ$  with the ground. How high up the wall does the beam reach?



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

$$x = 22.7$$

4. A plane took off from a field and rose at an angle of  $8^\circ$  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  $72^\circ$  with the ground. Find the distance between the foot of the ladder and the building.



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

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

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

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

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



# Geometry Worksheet 75 Angles Of Elevation And Depression Answers

**K Morrison**



## **Geometry Worksheet 75 Angles Of Elevation And Depression Answers:**

## Unveiling the Magic of Words: A Review of "**Geometry Worksheet 75 Angles Of Elevation And Depression Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Geometry Worksheet 75 Angles Of Elevation And Depression Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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