

Angle of Elevation & Depression Trig Worksheet

1. Brian's kite is flying above a field at the end of 65 m of string. If the angle of elevation to the kite measures 70° , how high is the kite above Brian's head?



$$\sin 70^\circ = \frac{x}{65}$$

$$x \approx 61.08m$$

2. From an airplane at an altitude of 1200 m, the angle of depression to a building on the ground measures 28° . Find the distance from the plane to the building.



$$\sin 28^\circ = \frac{1200}{x}$$

$$x = \frac{1200}{\sin 28^\circ} \rightarrow 2556.07m$$

3. From a point on the ground 12 ft from the base of a flagpole, the angle of elevation of the top of the pole measures 53° . How tall is the flagpole?



$$\tan 53^\circ = \frac{x}{12}$$

$$x \approx 15.92ft$$

4. From a plane flying due east at 265 m above sea level, the angles of depression of two ships sailing due east measure 35° and 25° . How far apart are the ships?



$$\tan 35^\circ = \frac{265}{x}$$

$$x = \frac{265}{\tan 35^\circ} \approx 378.46$$

$$\tan 25^\circ = \frac{265}{y}$$

$$y = \frac{265}{\tan 25^\circ} \approx 568.2$$

$$y - x = 568.2 - 378.46 = 189.74m$$

5. A man flies a kite and lets out 100 feet of string. The angle of elevation of the string is 52° . How high off the ground is the kite? How far away is the man from the spot directly under the kite?



$$\sin 52^\circ = \frac{x}{100}$$

$$x \approx 78.8ft$$

$$\cos 52^\circ = \frac{y}{100}$$

$$y \approx 61.5ft$$

6. From the top of a vertical cliff 40 m high, the angle of depression of an object that is level with the base of the cliff is 34° . How far is the object from the base of the cliff?



$$\tan 34^\circ = \frac{40}{x}$$

$$x = \frac{40}{\tan 34^\circ} \rightarrow x \approx 59.3m$$

Practice 8 4 Angles Of Elevation And Depression Answers

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Practice 8 4 Angles Of Elevation And Depression Answers:

Adopting the Track of Expression: An Psychological Symphony within **Practice 8 4 Angles Of Elevation And Depression Answers**

In a global taken by displays and the ceaseless chatter of instant interaction, the melodic splendor and emotional symphony produced by the published word usually diminish into the back ground, eclipsed by the relentless noise and distractions that permeate our lives. Nevertheless, nestled within the pages of **Practice 8 4 Angles Of Elevation And Depression Answers** a stunning literary value brimming with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this captivating masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of this poignant assessment, we shall discover the book is main harmonies, analyze their enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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