

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?



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

$$x \approx 61.08 \text{ m}$$

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.



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

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

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?



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

$$x \approx 15.92 \text{ ft}$$

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?



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

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

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

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

$$y - x = 568.2 - 378.46 = 189.74 \text{ m}$$

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?



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

$$x \approx 78.8 \text{ ft}$$

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

$$y \approx 61.5 \text{ ft}$$

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?



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

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

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