

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?



$$\sin 70 = \frac{h}{65}$$

$$h = 65 \sin 70$$

$$h \approx 61.1 \text{ m}$$

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.

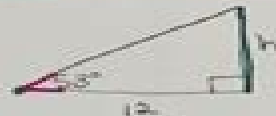


$$\sin 28 = \frac{1200}{x}$$

$$x \sin 28 = 1200$$

$$x = \frac{1200}{\sin 28} \approx 2556.1 \text{ m}$$

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?



$$\tan 53 = \frac{h}{12}$$

$$h = 12 \tan 53$$

$$h \approx 15.9 \text{ ft}$$

4. An airplane takes off 200 yards in front of a 60 foot building. At what angle of elevation must the plane take off in order to avoid crashing into the building? Assume that the airplane flies in a straight line and the angle of elevation remains constant until the airplane flies over the building.



* 200 yards = 600 feet *

$$\tan x = \frac{60}{600}$$

$$\tan^{-1}\left(\frac{60}{600}\right) = x \approx 5.7^\circ$$

more than 5.7°

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?



$$\sin 52 = \frac{h}{100}$$

$$h = 100 \sin 52$$

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

$$\cos 52 = \frac{d}{100}$$

$$d = 100 \cos 52$$

$$d \approx 61.6 \text{ ft}$$

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?



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

$$x \tan 34 = 40$$

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

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