

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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United States. Patent Office



Angles Of Elevation And Depression Glencoe 8 5:

Angles Of Elevation And Depression Glencoe 8 5 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Angles Of Elevation And Depression Glencoe 8 5**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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