

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.



$$\star 200 \text{ yards} = 600 \text{ feet} \star$$

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

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

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?



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

$$h = 100 \sin 52$$

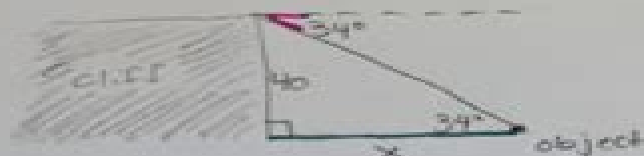
$$h \approx 78.8 \text{ ft}$$

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

$$d = 100 \cos 52$$

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

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?



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

$$x \tan 34 = 40$$

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

8 4 Angles Of Elevation And Depression Answer Key

Camilla Rothe



8 4 Angles Of Elevation And Depression Answer Key:

This book delves into 8 4 Angles Of Elevation And Depression Answer Key. 8 4 Angles Of Elevation And Depression Answer Key is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into 8 4 Angles Of Elevation And Depression Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to 8 4 Angles Of Elevation And Depression Answer Key
 - Chapter 2: Essential Elements of 8 4 Angles Of Elevation And Depression Answer Key
 - Chapter 3: 8 4 Angles Of Elevation And Depression Answer Key in Everyday Life
 - Chapter 4: 8 4 Angles Of Elevation And Depression Answer Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of 8 4 Angles Of Elevation And Depression Answer Key. This chapter will explore what 8 4 Angles Of Elevation And Depression Answer Key is, why 8 4 Angles Of Elevation And Depression Answer Key is vital, and how to effectively learn about 8 4 Angles Of Elevation And Depression Answer Key.
 3. In chapter 2, the author will delve into the foundational concepts of 8 4 Angles Of Elevation And Depression Answer Key. The second chapter will elucidate the essential principles that need to be understood to grasp 8 4 Angles Of Elevation And Depression Answer Key in its entirety.
 4. In chapter 3, the author will examine the practical applications of 8 4 Angles Of Elevation And Depression Answer Key in daily life. The third chapter will showcase real-world examples of how 8 4 Angles Of Elevation And Depression Answer Key can be effectively utilized in everyday scenarios.
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 6. In chapter 5, the author will draw a conclusion about 8 4 Angles Of Elevation And Depression Answer Key. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of 8 4 Angles Of Elevation And Depression Answer Key.

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