

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.



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

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

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

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?



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

$$x \tan 34 = 40$$

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

Geometry Worksheet 8 5 Angles Of Elavation Depression

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Table of Contents Geometry Worksheet 8 5 Angles Of Elavation Depression

1. Understanding the eBook Geometry Worksheet 8 5 Angles Of Elavation Depression
 - The Rise of Digital Reading Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Worksheet 8 5 Angles Of Elavation Depression
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Worksheet 8 5 Angles Of Elavation Depression

- Personalized Recommendations
 - Geometry Worksheet 8 5 Angles Of Elavation Depression User Reviews and Ratings
 - Geometry Worksheet 8 5 Angles Of Elavation Depression and Bestseller Lists
5. Accessing Geometry Worksheet 8 5 Angles Of Elavation Depression Free and Paid eBooks
 - Geometry Worksheet 8 5 Angles Of Elavation Depression Public Domain eBooks
 - Geometry Worksheet 8 5 Angles Of Elavation Depression eBook Subscription Services
 - Geometry Worksheet 8 5 Angles Of Elavation Depression Budget-Friendly Options
 6. Navigating Geometry Worksheet 8 5 Angles Of Elavation Depression eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Worksheet 8 5 Angles Of Elavation Depression Compatibility with Devices
 - Geometry Worksheet 8 5 Angles Of Elavation Depression Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Highlighting and Note-Taking Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Interactive Elements Geometry Worksheet 8 5 Angles Of Elavation Depression
 8. Staying Engaged with Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Worksheet 8 5 Angles Of Elavation Depression
 9. Balancing eBooks and Physical Books Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Worksheet 8 5 Angles Of Elavation Depression
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Setting Reading Goals Geometry Worksheet 8 5 Angles Of Elavation Depression
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Geometry Worksheet 8 5 Angles Of Elavation Depression

- Fact-Checking eBook Content of Geometry Worksheet 8 5 Angles Of Elavation Depression
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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