

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?



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

$$x \approx 61.08m$$

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.



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

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

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?



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

$$h \approx 15.92ft$$

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?



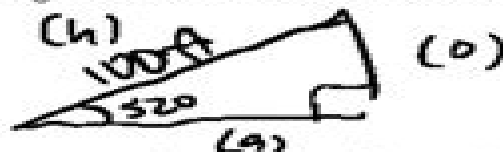
$$\tan 35^\circ = \frac{265}{x}$$

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

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

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

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?



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

$$h \approx 78.8ft$$

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

$$a \approx 61.5ft$$

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?



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

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

Practice 8 4 Angles Of Elevation And Depression

Answers

Michal Rosen-Zvi



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Table of Contents Practice 8 4 Angles Of Elevation And Depression Answers

1. Understanding the eBook Practice 8 4 Angles Of Elevation And Depression Answers
 - The Rise of Digital Reading Practice 8 4 Angles Of Elevation And Depression Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 4 Angles Of Elevation And Depression Answers
 - 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 Practice 8 4 Angles Of Elevation And Depression Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 4 Angles Of Elevation And Depression Answers
 - Personalized Recommendations
 - Practice 8 4 Angles Of Elevation And Depression Answers User Reviews and Ratings
 - Practice 8 4 Angles Of Elevation And Depression Answers and Bestseller Lists
5. Accessing Practice 8 4 Angles Of Elevation And Depression Answers Free and Paid eBooks
 - Practice 8 4 Angles Of Elevation And Depression Answers Public Domain eBooks
 - Practice 8 4 Angles Of Elevation And Depression Answers eBook Subscription Services
 - Practice 8 4 Angles Of Elevation And Depression Answers Budget-Friendly Options

6. Navigating Practice 8 4 Angles Of Elevation And Depression Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Practice 8 4 Angles Of Elevation And Depression Answers Compatibility with Devices
 - Practice 8 4 Angles Of Elevation And Depression Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Practice 8 4 Angles Of Elevation And Depression Answers
 - Highlighting and Note-Taking Practice 8 4 Angles Of Elevation And Depression Answers
 - Interactive Elements Practice 8 4 Angles Of Elevation And Depression Answers
8. Staying Engaged with Practice 8 4 Angles Of Elevation And Depression Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice 8 4 Angles Of Elevation And Depression Answers
9. Balancing eBooks and Physical Books Practice 8 4 Angles Of Elevation And Depression Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice 8 4 Angles Of Elevation And Depression Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practice 8 4 Angles Of Elevation And Depression Answers
 - Setting Reading Goals Practice 8 4 Angles Of Elevation And Depression Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice 8 4 Angles Of Elevation And Depression Answers
 - Fact-Checking eBook Content of Practice 8 4 Angles Of Elevation And Depression Answers
 - 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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