

Name

Key

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## Unit 5 Triangle Similarity and Trigonometry Test Review

Find the unknown side length. Simplify answers that are radicals.

1.



Pythagorean Theorem

$$3^2 + 6^2 = x^2$$

$$9 + 36 = x^2$$

$$45 = x^2$$

$$x^2 = 45$$

$$x = \sqrt{45}$$

$$x = 3\sqrt{5}$$

$$x = 3\sqrt{5}$$

2.



$$625 = x^2$$

$$\sqrt{625} = x$$

$$25 = x$$

$$x = 25$$

3.

An equilateral triangle has side lengths of 12. The length of its altitude is



$$6\sqrt{3}$$

4.

The city commission wants to construct a new street that connects Main Street and North Boulevard as shown in the diagram below. The construction cost has been estimated at \$90 per linear foot. Find the estimated cost for constructing the street. (1 mile = 5280 ft) Round to the nearest dollar amount.



$$3^2 + 5^2 = c^2$$

$$9 + 25 = c^2$$

$$34 = c^2$$

$$\sqrt{34} = c$$

$$c \approx 5.8$$

$$5.8 \text{ miles} \cdot \frac{5280 \text{ feet}}{1 \text{ mile}} \cdot \frac{\$90}{\text{ft.}}$$

$$(5.8)(5280)(90) =$$

$$\text{(If you round differently, you'll get a different answer.)}$$

$$\$2,756,160$$

$$15.6 \text{ ft}$$

$$c = \sqrt{244}$$

$$c \approx 15.6$$

ft

5.

A radio station is going to construct a 10-foot tower on top of a building. The tower will be supported by three cables, each attached to the top of the tower and to points on the roof of the building that are 12 feet from the base of the tower. Find the length of one of the cables.



$$10^2 + 12^2 = c^2$$

$$100 + 144 = c^2$$

$$244 = c^2$$

A baseball "diamond" is a square of side length 80 feet. How far is the throw, to one decimal place, from home plate to second base?



$$\text{throw} = 80\sqrt{2} \approx 113.14$$

$$(45-45-90 \text{ right } \Delta)$$

$$113.1 \text{ ft}$$

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**K Payea**



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## **Table of Contents Geometry Unit 8 Lesson Answer Review**

1. Understanding the eBook Geometry Unit 8 Lesson Answer Review
  - The Rise of Digital Reading Geometry Unit 8 Lesson Answer Review
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Unit 8 Lesson Answer Review
  - 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 Unit 8 Lesson Answer Review
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Unit 8 Lesson Answer Review
  - Personalized Recommendations
  - Geometry Unit 8 Lesson Answer Review User Reviews and Ratings
  - Geometry Unit 8 Lesson Answer Review and Bestseller Lists
5. Accessing Geometry Unit 8 Lesson Answer Review Free and Paid eBooks
  - Geometry Unit 8 Lesson Answer Review Public Domain eBooks

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