

\* = questions similar to test questions !!


Geometry  
Chapter 8 Review Right Triangles and Trigonometry

Name Key

Date \_\_\_\_\_

(8.1) Find the unknown side length. Tell whether the side lengths form a Pythagorean triple.

1.   $a^2 + b^2 = c^2$   
 $6^2 + x^2 = 15^2$   
 $36 + x^2 = 225$   
 $x^2 = 189 \rightarrow \sqrt{x^2} = \sqrt{189}$   
 $x = 3\sqrt{21}$   
Not PT!


2.   $a^2 + b^2 = c^2$   
 $6^2 + 5^2 = x^2$   
 $36 + 25 = x^2$   
 $\sqrt{61} = \sqrt{x^2}$   
 $\sqrt{61} = x$   
Not PT!

3.   $a^2 + b^2 = c^2$   
 $10^2 + 24^2 = x^2$   
 $100 + 576 = x^2$   
 $\sqrt{676} = \sqrt{x^2}$   
 $26 = x$   
Yes PT!

(8.1) Find the area of the triangle. ( $A = \frac{1}{2} b \cdot h$ ) Why can't skip  $= 4 \cdot 6$  !!

4.   $A = \frac{1}{2} b h$   
 $A = \frac{1}{2} (7)(24)$   
 $A = 84$   
 $A \approx 25 \text{ cm}^2$

5.   $A = \frac{1}{2} b h$   
 $A = \frac{1}{2} (12)(16)$   
 $A = 96$   
 $A \approx 45.25$

6.   $A = \frac{1}{2} b h$   
 $A = \frac{1}{2} (8)(15)$   
 $A = 60$   
 $A = 21 \text{ cm}^2$

(8.1/8.2) 7. Each base on a standard baseball diamond lies 90 feet from the next. Find the distance the catcher must throw a baseball from 3 feet behind home plate to second base.

  $90^2 + 90^2 = c^2$   
 $8100 + 8100 = c^2$   
 $\sqrt{16200} = \sqrt{c^2}$   
 $c = 90\sqrt{2} \text{ ft.} + 3 \text{ ft.} \rightarrow 90\sqrt{2} + 3 \text{ ft.}$   
 $\approx 130.28 \text{ ft.}$


(8.1) Decide whether the numbers can represent side lengths of a triangle. If they can, then classify the triangle as right, acute, or obtuse.

8.  $\sqrt{8}, 4, 6$   
 $\sqrt{8}^2 + 4^2 = 8 + 16 = 24$   
 $6^2 = 36$   
 $24 < 36$  obtuse

9.  $14, 48, 50$   
 $14^2 + 48^2 = 196 + 2304 = 2500$   
 $50^2 = 2500$   
 $2500 = 2500$  right

10.  $20, 21, 28$   
 $20^2 + 21^2 = 400 + 441 = 841$   
 $28^2 = 784$   
 $841 > 784$  acute


(8.2) 11. A square has side length 10 yd. What is the length of a diagonal of the square? Express in simplest radical form.

  $x^2 = 10^2 + 10^2$   
 $x^2 = 200$   
 $x = 10\sqrt{2} \text{ yd.}$

(8.2) 12. A square has diagonal length 9 m. What is the side length of the square, to the nearest centimeter?

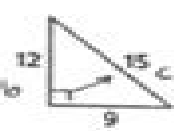
  $9^2 = x^2 + x^2$   
 $81 = 2x^2$   
 $x^2 = 40.5$   
 $x = \sqrt{40.5} \approx 6.36396 \text{ m} \approx 636 \text{ cm}$

(8.1) 13. A repairman leans the top of an 8-ft ladder against the top of a stone wall. The base of the ladder is 5.5 ft from the wall. About how tall is the wall? Round to the nearest tenth of a foot.

  $x^2 + 5.5^2 = 8^2$   
 $x^2 + 30.25 = 64$   
 $x^2 = 33.75$   
 $x = 5.8 \text{ ft.}$

(8.1) Is each triangle a right triangle?

14.   $19^2 + 18^2 = 361 + 324 = 685$   
 $27^2 = 729$   
 $685 \neq 729$   
Not right  $\Delta$ !

15.   $12^2 + 9^2 = 144 + 81 = 225$   
 $15^2 = 225$   
 $225 = 225$   
Yes right  $\Delta$ !

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**Tony Cotton**



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## **Table of Contents Geometry Chapter 8 Vocabulary**

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

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