

# Unit 7 Test Study Guide (Right Triangles & Trigonometry)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

## Topic 1: The Pythagorean Theorem

For any right triangle: \_\_\_\_\_, where  $a$  and  $b$  are legs and  $c$  is the hypotenuse.

Directions: Solve for  $x$ . Round your answer to the nearest tenth.

1.



2.



3.



4.



5. An Olympic-size swimming pool is approximately 50 meters long by 25 meters wide. What distance will a swimmer travel if they swim from one corner to the opposite?

6. A 20-foot ramp is used at the loading dock of a factory. If the base of the ramp is placed 19 feet from the base of the dock, how high is the loading dock?

## Topic 2: Pythagorean Theorem Converse & Classifying Triangles

Given a triangle with side lengths  $a$ ,  $b$ , and  $c$ :

- If \_\_\_\_\_, then it is a **right** triangle.
- If \_\_\_\_\_, then it is an **acute** triangle.
- If \_\_\_\_\_, then it is an **obtuse** triangle.



**Recall:** To be a triangle, the sum of the two smaller sides must be greater than the third largest side.

Directions: Classify the triangle with the given side lengths as acute, right, obtuse, or not a triangle.

7. 20, 21, 29

- Not a  $\Delta$   
 Acute  
 Right  
 Obtuse

8. 5, 9, 10

- Not a  $\Delta$   
 Acute  
 Right  
 Obtuse

# Light Unit Study Guide Answers

**M Lipman**



**Light Unit Study Guide Answers:**

The book delves into Light Unit Study Guide Answers. Light Unit Study Guide Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Light Unit Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Light Unit Study Guide Answers
    - Chapter 2: Essential Elements of Light Unit Study Guide Answers
    - Chapter 3: Light Unit Study Guide Answers in Everyday Life
    - Chapter 4: Light Unit Study Guide Answers in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Light Unit Study Guide Answers. The second chapter will elucidate the essential principles that must be understood to grasp Light Unit Study Guide Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Light Unit Study Guide Answers in daily life. This chapter will showcase real-world examples of how Light Unit Study Guide Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Light Unit Study Guide Answers in specific contexts. This chapter will explore how Light Unit Study Guide Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Light Unit Study Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The 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 Light Unit Study Guide Answers.

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