

# 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

**Siddappa N.Byrareddy**



**Light Unit Study Guide Answers:**

## Reviewing **Light Unit Study Guide Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Light Unit Study Guide Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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