

# Chapter 2: Lessons 2.1- 2.5 and the Pythagorean Theorem

## 1. Problems 1-6 Solutions

### 2. Problems 7-10 Solutions

- 7. The right triangle has legs that are 10 units and 24 units long. Find the length of the hypotenuse.
- 8. The right triangle has legs that are 15 units and 20 units long. Find the length of the hypotenuse.

### 3. Problems 11-14 Solutions

- 11. 13
- 12. 17

### 4. Problems 15-18 Solutions

- 15. The right triangle has legs that are 3 units and 4 units long. Find the length of the hypotenuse.

leg 1 = 3	leg 2 = 4	hyp = 5
3 <sup>2</sup> = 9	4 <sup>2</sup> = 16	5 <sup>2</sup> = 25
9 + 16 = 25		
hyp = 5		

- 16. The right triangle has legs that are 8 units and 15 units long. Find the length of the hypotenuse.

- 17. The right triangle has legs that are 6 units and 8 units long. Find the length of the hypotenuse.

leg 1 = 6	leg 2 = 8	hyp = 10
6 <sup>2</sup> = 36	8 <sup>2</sup> = 64	10 <sup>2</sup> = 100
36 + 64 = 100		
hyp = 10		

- 18. The right triangle has legs that are 9 units and 12 units long. Find the length of the hypotenuse.

### 5. Problems 19-22 Solutions

19. The right triangle has legs that are 12 units and 16 units long. Find the length of the hypotenuse.

[Source: Grade 7, Lesson 10]

### 6. Problems 23-26 Solutions

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## **Table of Contents Hs Mathematics Algebra 1 Unit 6 Lesson 1**

1. Understanding the eBook Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - The Rise of Digital Reading Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - 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 Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Personalized Recommendations
  - Hs Mathematics Algebra 1 Unit 6 Lesson 1 User Reviews and Ratings
  - Hs Mathematics Algebra 1 Unit 6 Lesson 1 and Bestseller Lists
5. Accessing Hs Mathematics Algebra 1 Unit 6 Lesson 1 Free and Paid eBooks
  - Hs Mathematics Algebra 1 Unit 6 Lesson 1 Public Domain eBooks
  - Hs Mathematics Algebra 1 Unit 6 Lesson 1 eBook Subscription Services

- Hs Mathematics Algebra 1 Unit 6 Lesson 1 Budget-Friendly Options
- 6. Navigating Hs Mathematics Algebra 1 Unit 6 Lesson 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Hs Mathematics Algebra 1 Unit 6 Lesson 1 Compatibility with Devices
  - Hs Mathematics Algebra 1 Unit 6 Lesson 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Highlighting and Note-Taking Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Interactive Elements Hs Mathematics Algebra 1 Unit 6 Lesson 1
- 8. Staying Engaged with Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hs Mathematics Algebra 1 Unit 6 Lesson 1
- 9. Balancing eBooks and Physical Books Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hs Mathematics Algebra 1 Unit 6 Lesson 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Setting Reading Goals Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - Fact-Checking eBook Content of Hs Mathematics Algebra 1 Unit 6 Lesson 1
  - 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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