

# Chapter 7 Answers

## Practice 7-1

1. 8    2. 8    3. 60    4. 240    5. 2,635    6. 1.92  
 7. 0.8125    8. 9    9. 1500    10. 8.75    11. 3.44  
 12. 7    13. 110    14. 30    15. 16    16. 119  
 17. 12    18. 48    19. 40    20. 56

## Practice 7-2

1.  $\sqrt{51}$     2.  $4\sqrt{7}$     3.  $2\sqrt{65}$     4.  $\sqrt{7}$   
 5.  $2\sqrt{21}$     6.  $18\sqrt{2}$     7.  $210 \text{ in.}^2$     8.  $24\sqrt{10} \text{ cm}^2$   
 9.  $35\sqrt{114} \text{ ft}^2$     10. 46 in.    11. 78 ft    12. 279 cm  
 13. 19 m    14. acute    15. right    16. obtuse  
 17. right    18. obtuse    19. acute

## Practice 7-3

1.  $x = 2; y = \sqrt{3}$     2.  $a = 4.5; b = 4.5\sqrt{3}$   
 3.  $c = \frac{20\sqrt{3}}{3}; d = \frac{20\sqrt{3}}{3}$     4.  $8\sqrt{2}$     5.  $14\sqrt{2}$   
 6.  $\frac{20\sqrt{3}}{3}$     7. 2    8.  $x = 15; y = 15\sqrt{3}$     9.  $3\sqrt{2}$   
 10. 42 cm    11. 5.9 in.    12. 10.4 ft, 12 ft    13. 170 in.<sup>2</sup>  
 14.  $w = \frac{20\sqrt{3}}{3}; x = 5; y = 5\sqrt{2}; z = \frac{2\sqrt{3}}{3}$     15.  $a = 4;$   
 $b = 3$     16.  $p = 4\sqrt{3}; q = 4\sqrt{3}; r = 8; s = 4\sqrt{6}$

## Practice 7-4

1.  $48 \text{ cm}^2$     2.  $784 \text{ in.}^2$     3.  $11.4 \text{ ft}^2$     4.  $90 \text{ m}^2$   
 5.  $2400 \text{ in.}^2$     6.  $374 \text{ ft}^2$     7.  $160 \text{ cm}^2$     8.  $176.25 \text{ in.}^2$   
 9.  $54 \text{ ft}^2$     10. 42.5 square units    11.  $96\sqrt{3}$  square units  
 12.  $36\sqrt{3}$  square units    13.  $45 \text{ cm}^2$     14.  $226.2 \text{ in.}^2$   
 15.  $49,500 \text{ m}^2$

## Practice 7-5

1.  $x = 7; y = 3.5\sqrt{3}$     2.  $a = 60; c = \frac{8\sqrt{3}}{3}; d = \frac{8\sqrt{3}}{3}$   
 3.  $p = 4\sqrt{3}; q = 8; s = 30$     4.  $m\angle 1 = 45; m\angle 2 = 45;$   
 $m\angle 3 = 90; m\angle 4 = 90$     5.  $m\angle 5 = 60; m\angle 6 = 30;$   
 $m\angle 7 = 120$     6.  $m\angle 8 = 60; m\angle 9 = 30; m\angle 10 = 60$   
 7.  $12\sqrt{3}$     8.  $36.75\sqrt{3}$     9.  $75\sqrt{3}$     10.  $120 \text{ in.}^2$   
 11.  $137 \text{ in.}^2$     12.  $97 \text{ in.}^2$

## Practice 7-6

1.  $32\pi$     2.  $16\pi$     3.  $7.8\pi$     4. Samples:  $\overline{DFA}, \overline{ABF}$   
 5. Samples:  $\overline{FE}, \overline{FD}$     6. Samples:  $\overline{FEB}, \overline{EDA}$   
 7. Samples:  $\overline{FE}, \overline{ED}$     8.  $\angle ACB$     9.  $\angle FCD$   
 10. 32    11. 43    12. 54    13. 39    14. 71  
 15. 90    16. 50    17. 220    18. 140    19. 220  
 20. 130    21.  $6\pi \text{ in.}$     22.  $16\pi \text{ cm}$     23.  $\frac{2}{3}\pi \text{ m}$

## Practice 7-7

1.  $49\pi$     2. 21.2    3.  $\frac{20}{3}\pi$     4.  $\frac{20}{3}\pi - 21.2$     5.  $\frac{1}{3}\pi$   
 or  $\frac{\pi}{3}$     6.  $\frac{1}{3}$     7.  $\frac{1}{10}\pi$  or  $\frac{\pi}{10}$     8.  $\frac{\pi}{10} - \frac{1}{3}$     9.  $4\pi$   
 10.  $\frac{10}{3}\pi$     11.  $\frac{2}{3}\pi$     12.  $\frac{2}{3}\pi$     13.  $\frac{10}{3}\pi$     14.  $6\pi$   
 15.  $\frac{20}{3}\pi$     16.  $\frac{20}{3}\pi$     17.  $\frac{\pi}{3}$     18. 3    19. 2  
 20. 10

## Practice 7-8

1. 8.7%    2. 10.9%    3. 15.3%    4.  $\frac{3}{10}$     5.  $\frac{7}{10}$   
 6.  $\frac{3}{5}$     7.  $\frac{1}{10}$     8. 1    9.  $\frac{1}{2}$     10. 22.2%    11. 4.0%  
 12. 37.5%    13. 20%    14. 50%    15. 40%  
 16.  $33\frac{1}{3}\%$

## Reteaching 7-1

1. Samples:



2. Samples:



3.  $20 \text{ cm}^2$     4.  $55 \text{ in.}^2$     5. 6 m    6. 8 ft    7. 4 in.

8. Samples:



9. 5 in.    10. 23 cm    11. 9 ft

## Reteaching 7-2

1.–2. Sample:



3. Sample: 9, 16, and 25    4. They are equal.    5. The sum of the squares of the two legs equals the square of the hypotenuse.    6.  $4\sqrt{5}$     7.  $7\sqrt{2}$     8. 8    9. 6

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**Sir Philip MAGNUS**



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### **Table of Contents Geometry Lesson Key**

1. Understanding the eBook Geometry Lesson Key
  - The Rise of Digital Reading Geometry Lesson Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Lesson Key
  - 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 Lesson Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Lesson Key
  - Personalized Recommendations
  - Geometry Lesson Key User Reviews and Ratings

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