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 in^2 8. $24\sqrt{10} \text{ cm}^2$ 9. $35\sqrt{114} \text{ ft}^2$ 10. 46 in 11. 78 ft 12. 279 cm13. 19 m 14. acute 15. right 16. obtuse
17. right 18. obtuse 19. acute

Practice 7-3

1. $x = 2; y = \sqrt{3}$ 2. $a = 45; b = 45\sqrt{3}$ 3. $c = \frac{50\sqrt{3}}{3}; d = \frac{25\sqrt{3}}{3}$ 4. $8\sqrt{2}$ 5. $14\sqrt{2}$ 6. $\frac{25\sqrt{3}}{3}$ 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^2 14. $w = \frac{16\sqrt{3}}{3}; x = 5; y = 5\sqrt{2}; z = \frac{5\sqrt{3}}{3}$ 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 cm^2 2. 784 in.^2 3. 11.4 ft^2 4. 90 m^2 5. 2400 in.^2 6. 374 ft^2 7. 160 cm^2 8. 176.25 in.^2 9. 54 ft^2 10. 42.5 square units 11. $96\sqrt{3} \text{ square units}$ 12. $36\sqrt{3} \text{ square units}$ 13. 45 cm^2 14. 226.2 in.^2 15. 49.500 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. $p = 4\sqrt{3}; q = 8; x = 30$ 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 in.^2 11. 137 in.^2 12. 97 in.^2

Practice 7-6

1. 32π 2. 16π 3. 7.8π 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. 6π in. 22. 16π cm 23. $\frac{3}{2}\pi$ m

Practice 7-7

1. 49年 2. 21.2 3. 翌年 4. 翌年 21.2 5. 皇年 6. 皇 7. 長年 6. 皇 7. 長年 6. 皇 9. 4年 10. 翌年 11. 皇年 12. 皇年 13. 吳年 14. 6年 15. 瑩年 16. 翌年 17. 至 18. 3 19. 2 20. 10

Practice 7-8

1. 8.7% 2. 10.9% 3. 15.3% 4. $\frac{1}{20}$ 5. $\frac{7}{10}$ 6. $\frac{3}{2}$ 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 $\frac{1}{2}$ %

Reteaching 7-1

1. Samples:





2. Samples:



20 cm²
 55 in.²
 6m
 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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