

Chapter 9 Answers

Practice 9-1

1. $\tan E = \frac{1}{2}$; $\tan F = \frac{1}{3}$ 2. $\tan E = 1$; $\tan F = 1$
 3. $\tan E = \frac{1}{5}$; $\tan F = \frac{1}{2}$ 4. 12.4 5. 31.0 6. 14.1
 7. 7.1 8. 2.3 9. 6.4 10. 78.7 11. 26.6
 12. 71.6 13. 39 14. 72 15. 27 16. 68
 17. 39 18. 54

Practice 9-2

1. $\sin P = \frac{2\sqrt{10}}{11}$; $\cos P = \frac{3}{11}$ 2. $\sin P = \frac{1}{2}$; $\cos P = \frac{\sqrt{3}}{2}$
 3. $\sin P = \frac{11}{15}$; $\cos P = \frac{14}{15}$ 4. $\sin P = \frac{3\sqrt{11}}{10}$; $\cos P = \frac{7}{10}$
 5. $\sin P = \frac{3\sqrt{2}}{5}$; $\cos P = \frac{4\sqrt{2}}{5}$ 6. $\sin P = \frac{11}{13}$; $\cos P = \frac{12}{13}$
 7. 64 8. 11.0 9. 7.0 10. 42 11. 7.8 12. 53
 13. 6.6 14. 37 15. 11.0 16. 56 17. 11.5
 18. 9.8

Practice 9-3

- 1a. angle of depression from the birds to the ship
 1b. angle of elevation from the ship to the birds
 1c. angle of depression from the ship to the submarine
 1d. angle of elevation from the submarine to the ship
 2a. angle of depression from the plane to the person
 2b. angle of elevation from the person to the plane
 2c. angle of depression from the person to the sailboat
 2d. angle of elevation from the sailboat to the person
 3. 126.6 ft 4. 64.8 ft 5. 46.7 ft 6. 31.2 yd
 7. 127.8 m 8. 323.6 m
 9a.



9b. 26 ft

Practice 9-4

1. (46.0, 46.0) 2. (-37.1, -19.7) 3. (89.2, -80.3)
 4. 38.6 mi/hr; 31.2° north of east 5. 134.5 m; 42.0° south of west
 6. 1.3 m/sec; 38.7° south of east 7. 55° north of east
 8. 20° west of south 9. 33° west of north
 10a. (1, 5) 10b.



11a. (1, -1) 11b.



12a. (-7, -1) 12b.



13. Sample:



14. Sample:



Practice 9-5

1. 174.8 cm² 2. 578 ft² 3. 1256.5 mm²
 4. 192.6 m² 5. 1131.4 in.² 6. 419.2 cm²
 7. 324.9 in.² 8. 162 cm² 9. 37.6 m² 10. 30.1 mi²
 11. 55.4 km² 12. 357.6 in.² 13. 9.7 mm²
 14. 264.0 in.² 15. 54.5 cm² 16. 9.1 ft²
 17. 80.9 m² 18. 63.1 m² 19. 65.0 ft² 20. 119.3 ft²
 21. 8 m² 22. 55.4 ft²

Reteaching 9-1

1. 26.6 2. 76.0 3. 80.5 4. 26.6
 5. 8.1 6. 0.8 7. $m\angle A = 53.1$; $m\angle B = 36.9$
 8. $m\angle A = 67.4$; $m\angle B = 22.6$ 9. $m\angle A = 70.5$;
 $m\angle B = 19.5$ 10. $m\angle A = 63.4$; $m\angle B = 26.6$
 11. 26.6 12. 63.4 13. 49.4

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AW Rasmussen



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