# Chapter 9 Answers

#### Practice 9-1

 tam E = ± tan F = ‡ tan E = 1; tan F = 1. tan E = 1; tan F = 3. 4, 12.4 5, 31.0 6, 14.1 7. 7.1 8, 2.3 10, 78.7 9. 6.4 11. 26.6 13, 39 12. 71.6 24, 72 15, 27 17, 30 18, 54

#### Practice 9-2

1.  $\sin P = \frac{2\sqrt{10}}{100}\cos P = \frac{2}{7}$  2.  $\sin P = \frac{4}{10}\cos P = \frac{2}{7}$  3.  $\sin P = \frac{12}{10}\cos P = \frac{2}{7}$  4.  $\sin P = \frac{4\sqrt{11}}{10}\cos P = \frac{2}{7}$  5.  $\sin P = \frac{\sqrt{2}}{2}\cos P = \frac{\sqrt{2}}{7}$  6.  $\sin P = \frac{12}{7}\cos P = \frac{2}{7}$  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 hinds 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. 106.6 ft
4. 84.8 ft
5. 46.7 ft
6. 31.2 yd
7. 127.8 m
8. 323.6 m



96. 26 B

#### Practice 9-4

1. (46.0, 48.0) 2. (-37.1, -19.7) 3. (89.2, -80.3)
4. 38.6 mi/h; 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. 21" 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

THE REPORT OF THE PARTY OF			
1. 174.8 cm <sup>2</sup>	2. 578 m <sup>2</sup>	3. 1259.5 mm <sup>2</sup>	
4. 192.6 m <sup>2</sup>	5. 1131.4 in.2		
7. 324.9 in.2	8. 162 cm <sup>2</sup>	9. 37.6 m²	10. 30.1 mi2
	12. 357.6 im.		To the state of the
	15. 54.5 cm <sup>2</sup>		
	18, 83.1 m <sup>2</sup>	19. 65.0 m <sup>2</sup>	20. 119.3 m <sup>2</sup>
21, 8 m 2	22. 55.4 m <sup>2</sup>		

Reteaching 9-1

1. 26.6	2. 76.0	3. 80.5	4, 26.6
			$53.1; mid_1B = 36.9$
			9. mil. A = 70.5c
			$63.4; mi \angle B = 26.6$
11, 26.6	12. 63.4	13, 49,	4

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