

CH. 9 SOLUTIONS

Sect. 9.1 p. 334

- (14) 363 m
- (18) 18.4 cm
- (22) 32.5°
- (24) 817 ft
- (26) a) 1.52 mi b) 0.152 mi/s

Sect 9.2 p. 343

- (20) 100.4 units²
- (22) 139 cm²

Sect 9.4 p. 352

- (14) 6.4 cm
- (16) 70.7 units²
- (18) a) 10,758.62 ft
b) 10.4°

Sect 9.3-9.4 Review p. 352

- (4) 32.2°
- (6) $s \approx 10.3$, $t \approx 5.22$
- (8) Area ≈ 3.141 $\pi \approx 3.142$
- (10) $\cos A = 0.6$, $\sin A = 0.8$
- (12) 272 $\frac{\text{ft}}{\text{min}}$, 2.69 knots
- (14) a.) $20\sqrt{3}$ b.) 7, $\sqrt{129}$
- (18) $A = 28\sqrt{3}$, $p = 2\sqrt{37} + 2\sqrt{93}$
- (20) 4,430 units²
- (22) 841.63

Sect 9.5 p. 363

- (15) 125, 296 m²
- (16) 40, 521 m²
- (17) 29, 536 m²
- (18) 87, 076 m²

p. 362

- (6) 128°
- (8) 213.7°
- (10) 67.5° , 7.39 km
- (12) 4.29 mi
- (14) 198.4° , 2.24 hrs