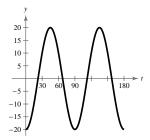
Trigonometry Answers

- **1.** 18 feet
- 2. 2/3 revolution per minute
- 3. $\frac{4\pi}{3}$ radians per minute, 4° per second
- **4.** $P(t) = -20\cos(4t)$; amplitude: 20, period = 90 sec



- **5.** About 3.5 ft, 10 ft, about 15.3 ft; 25 sec and 60 sec
- **6.** From t = 22.5 seconds to t = 67.5 seconds
- **7.** t = 112.5 sec
- **8.** About 10.1 ft
- 9. $\theta = \arctan\left(\frac{x}{25}\right)$; 45°, about 58°