

Homework 3.2 Answers

1.a)

$$\text{b) } y = 6 + 9 \cos \frac{\pi}{7}(x - 6)$$

- c) 2.109 ft below the surface
- d) 15 ft.
- e) .874 seconds; coming out of the water
- f) 17.526 seconds

2. a)

$$\text{2 b) } y = 112 + 8 \cos \frac{\pi}{20}(x - 35)$$

- c) 117.657°
- d) 3.391, 26.609, 43.491 sec.

3. a)

$$\text{b) } y = 139 - 125 \cos \frac{\pi}{5}x \text{ or}$$

$$y = 139 + 125 \cos \frac{\pi}{5}(x - 5)$$

- c) 240.127 ft
- d) 16.689 sec.