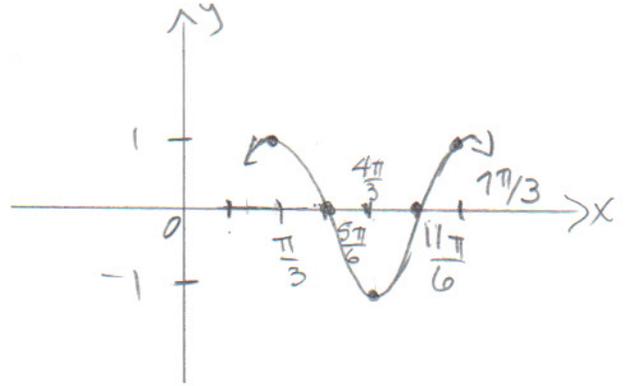


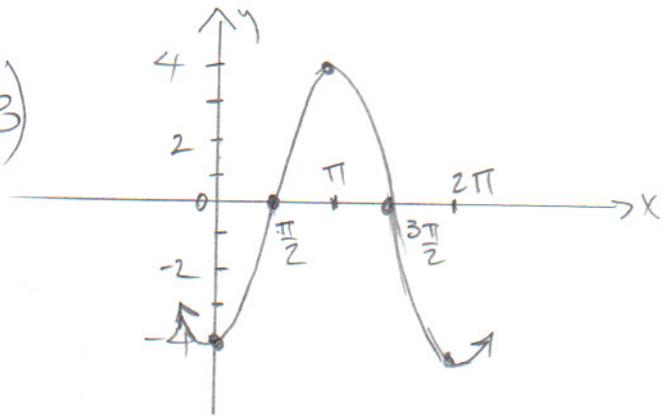
Chapter 6 Spiral Review Solutions

- 1) 69.39°
- 2) $133^\circ 47' 24''$
- 3) 22.2 in.
- 4) 18 radians
- 5) $\frac{29\pi}{60}$
- 6) 160°
- 7) 57.3°
- 8) 294 in^2
- 9) 0.11 radians
- 10) 1954.77 ft^2
- 11) $\frac{1}{6} \text{ cm/sec}$
- 12) $\frac{\sqrt{65}}{9}$
- 13) $-\frac{\sqrt{77}}{9}$
- 14) -
- 15) 0
- 16) 1
- 17) undefined
- 18) $\frac{\sqrt{2}}{2}$
- 19) $\frac{2\sqrt{3}}{3}$
- 20) $-\sqrt{2}$
- 21) $\frac{\sqrt{2}+2}{2}$
- 22) 1.04
- 23) $\frac{12}{13}$
- 24) -
- 25) III
- 26) III
- 27) 1
- 28) $\frac{\sqrt{77}}{2}$
- 29) 1

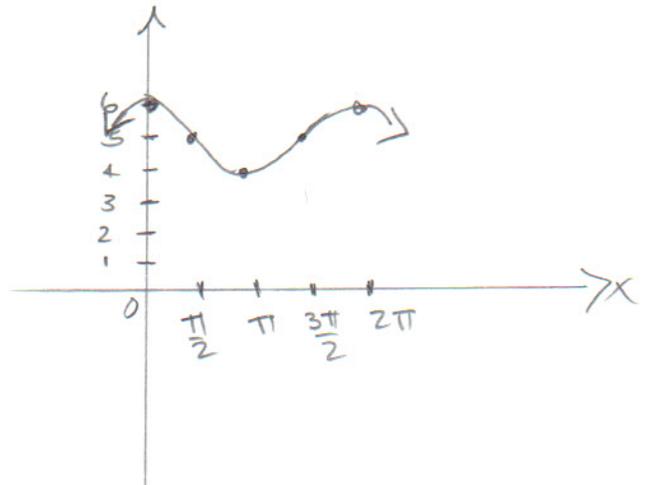
27)



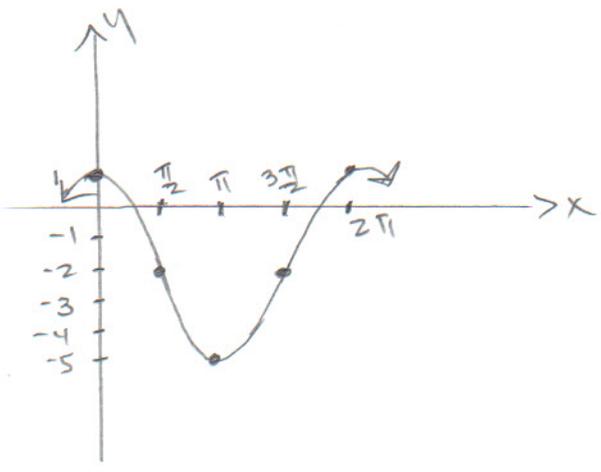
28)



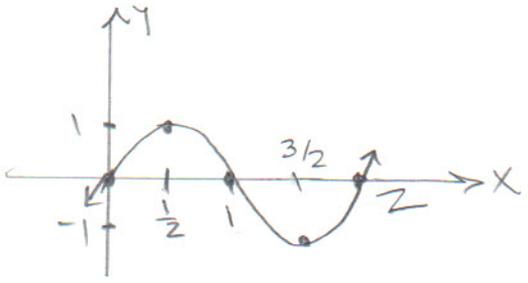
29)



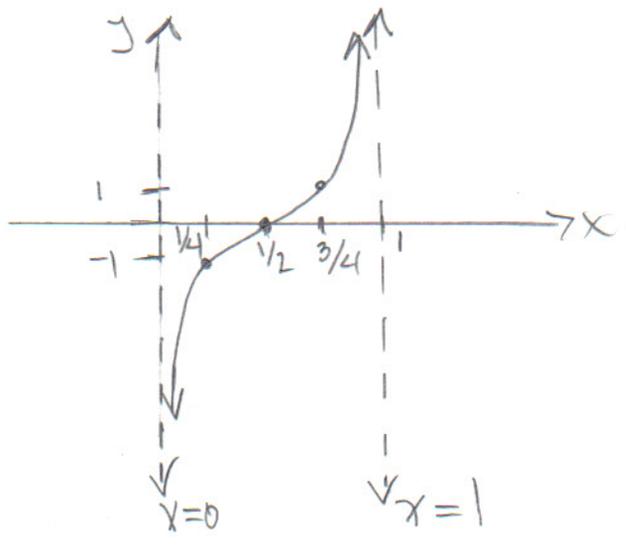
30)



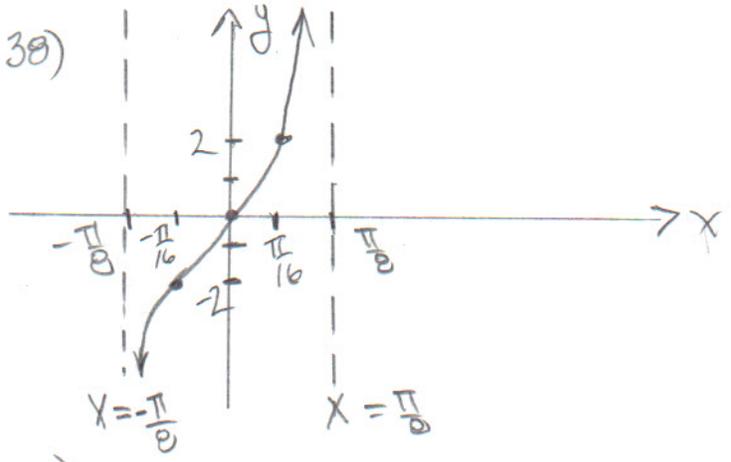
31)



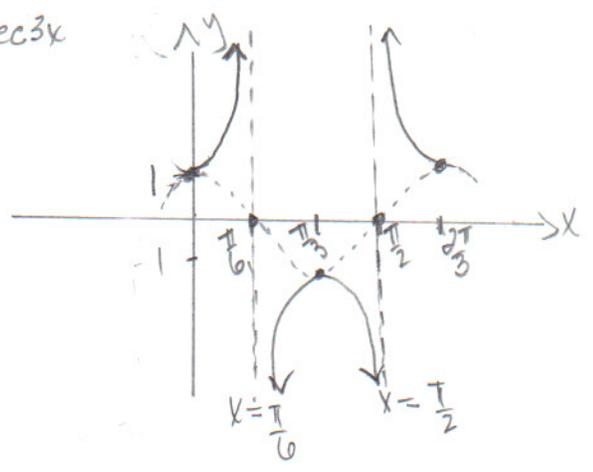
37)



38)



39) $y = \sec 3x$



32) 2

33) 6π

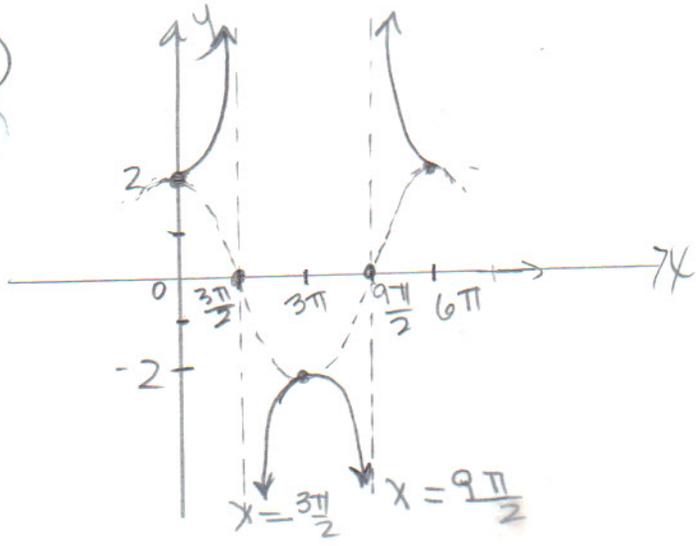
34) $y = 5 \sin\left(\frac{2}{3}\pi x\right)$

35) $y = 3 \sin\left(\frac{1}{2}x\right)$

36) $y = 5 \cos\left(\frac{\pi}{2}x\right)$

37)

40)



45) $d = -6 \cos\left(\frac{2}{3}\pi t\right)$

46) $d = -10 \sin\left(\frac{1}{2}\pi t\right)$

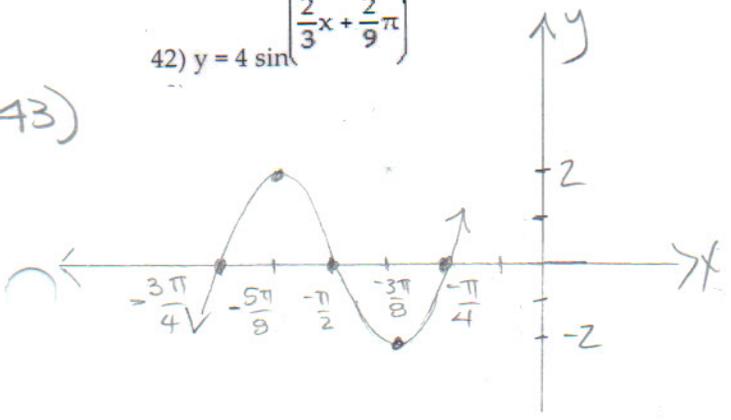
47) simple harmonic; 4 m; $\frac{2}{5}\pi$ sec; $\frac{5}{2\pi}$ oscillations/sec

48) simple harmonic; 4 m; $\frac{2}{3}\pi$ sec; $\frac{3}{2\pi}$ oscillations/sec

41) (i) $\frac{1}{2}$ (ii) π (iii) π

42) $y = 4 \sin\left(\frac{2}{3}x + \frac{2}{9}\pi\right)$

43)



44)

