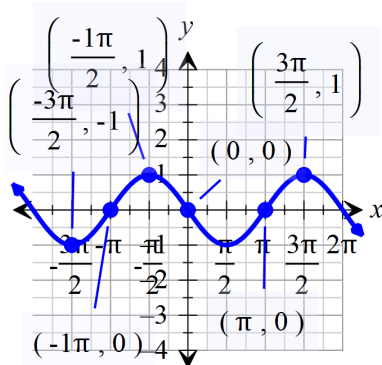


SM3H 7.4 odd answers

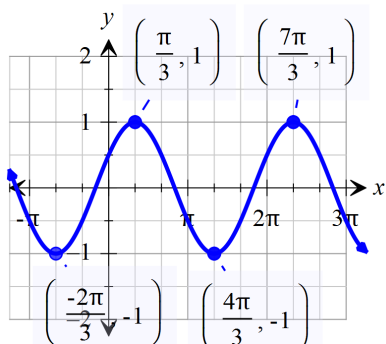
1. $\frac{1}{2}$
3. 0
5. 1
7. $(\frac{3\pi}{4}, 3), (\frac{\pi}{6}, 3)$
9. $(-\frac{4\pi}{3}, 3)$
11. $(\frac{3\pi}{2}, 0)$

13. Amplitude: 1, Period: 2π
 Frequency: $\frac{1}{2\pi}$, Phase shift: right $\frac{\pi}{2}$
 Range: $[-1, 1]$
15. Amplitude: 3, Period: $\frac{\pi}{2}$
 Frequency: $\frac{2}{\pi}$, Phase shift: none
 Range: $[-3, 3]$
17. Amplitude: 1, Period: $\frac{2\pi}{5}$
 Frequency: $\frac{5}{2\pi}$, Phase shift: none
 Range: $[4, 6]$

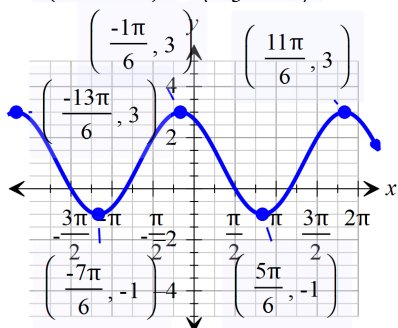
19. Amplitude: 1
 Period: 2π
 Frequency: $\frac{1}{2\pi}$
 Phase shift: none
 Range: $[-1, 1]$
 Midline: $y = 0$



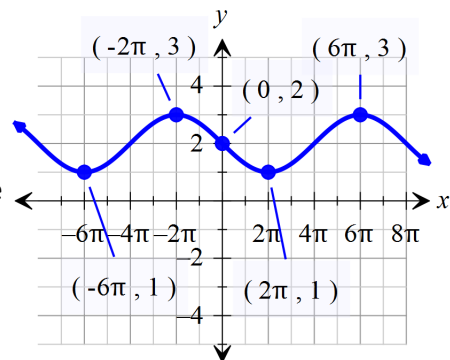
21. Amplitude: 1
 Period: 2π
 Frequency: $\frac{1}{2\pi}$
 Phase shift: right $\frac{\pi}{3}$
 Range: $[-1, 1]$
 Midline: $y = 0$



23. Amplitude: 2
 Period: 2π
 Frequency: $\frac{1}{2\pi}$
 Phase shift: left $\frac{\pi}{6}$
 Range: $[-1, 3]$
 Midline: $y = 1$



25. Amplitude: 1
 Period: 8π
 Frequency: $\frac{1}{8\pi}$
 Phase shift: none
 Range: $[1, 3]$
 Midline: $y = 2$



27. $f(x) = 2 \sin\left(2\left(x - \frac{\pi}{4}\right)\right)$
29. $freq = \frac{5}{2\pi}$ $per = \frac{2\pi}{5}$
31. $y = 3 \sin(2x)$
33. $y = 3 \cos\left(4\left(x + \frac{\pi}{2}\right)\right)$