

1. Period: π

Amplitude: 1

Phase Shift: $\frac{\pi}{2}$

x -axis labels: $\frac{\pi}{2}, \frac{3\pi}{4}, \pi, \frac{5\pi}{4}, \frac{3\pi}{2}$

y -axis labels: $-1, 1$

2. Period: 4π

Amplitude: 1

Phase Shift: 0

x -axis labels: $0, \pi, 2\pi, 3\pi, 4\pi$

y -axis labels: $-1, 1$

3. Period: π

Amplitude: 2

Phase Shift: 0

x -axis labels: $0, \frac{\pi}{4}, \frac{\pi}{2}, \frac{3\pi}{4}, \pi$

y -axis labels: $-2, 2$

4. Period: 2π

Amplitude: 1

Phase Shift: $-\pi$

x -axis labels: $-\pi, -\frac{\pi}{2}, 0, \frac{\pi}{2}, \pi$

y -axis labels: $-1, 1$

5. Period: π

Amplitude: 1

Phase Shift: $\frac{\pi}{6}$

x -axis labels: $\frac{\pi}{6}, \frac{5\pi}{12}, \frac{2\pi}{3}, \frac{11\pi}{12}, \frac{7\pi}{6}$

y -axis labels: $-1, 1$

6. Period: 2π

Amplitude: 1

Phase Shift: $\frac{\pi}{2}$

x -axis labels: $\frac{\pi}{2}, \pi, \frac{3\pi}{2}, 2\pi, \frac{5\pi}{2}$

y -axis labels: $-1, 1$

7. Period: 2π
Amplitude: 1
Phase Shift: $\frac{\pi}{2}$
 x -axis labels: $\frac{\pi}{2}, \pi, \frac{3\pi}{2}, 2\pi, \frac{5\pi}{2}$
 y -axis labels: $-1, 1, 2$
Graph is the same as #6 shifted one unit up.

8. Period: 2π
Amplitude: 1
Phase Shift: $\frac{\pi}{2}$
 x -axis labels: $\frac{\pi}{2}, \pi, \frac{3\pi}{2}, 2\pi, \frac{5\pi}{2}$
 y -axis labels: $-1, 1$

9. Same as #8 shifted one unit down.

10. Period: $\frac{2\pi}{3}$
Amplitude: 2
Phase Shift: $\frac{\pi}{6}$
 x -axis labels: $\frac{\pi}{6}, \frac{\pi}{3}, \frac{\pi}{2}, \frac{2\pi}{3}, \frac{5\pi}{6}$
 y -axis labels: $-1, 1, 2, 3$