

For each trigonometric function described below find the amplitude, period, and phase shift. Graph each function.

1. $y = 3\sin(\theta - 90^\circ)$

Amplitude:

Period:

Phase Shift:

2. $y = -2\cos 4\left(x + \frac{\pi}{4}\right)$

Amplitude:

Period:

Phase Shift:

3. $y = \cos\left(\frac{1}{2}\theta + 30^\circ\right)$

Amplitude:

Period:

Phase Shift:

4. $y = -4 \sin\left(\frac{1}{2}x + \frac{\pi}{2}\right)$

Amplitude:

Period:

Phase Shift:

5. $y = 4 \tan \frac{1}{3}(\theta - 90^\circ)$

Amplitude:

Period:

Phase Shift:

6. $y = 2 \cos\left(2x - \frac{\pi}{4}\right)$

Amplitude:

Period:

Phase Shift: