

Find the amplitude, period, and phase shift then graph the function for  $0 \leq x \leq 2\pi$ .

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

Amp - \_\_\_\_\_

Period- \_\_\_\_\_

Phase shift- \_\_\_\_\_

2.  $y = -2 \cos(x + \frac{\pi}{3})$

Amp - \_\_\_\_\_

Period- \_\_\_\_\_

Phase shift- \_\_\_\_\_

3.  $y = \sin 3(x - \frac{\pi}{3})$

Amp - \_\_\_\_\_

Period- \_\_\_\_\_

Phase shift- \_\_\_\_\_

4.  $y = 2 \cos(3x + \pi)$

Amp - \_\_\_\_\_

Period- \_\_\_\_\_

Phase shift- \_\_\_\_\_

5.  $y = \frac{2}{3} \cos(3x - \frac{\pi}{2})$

Amp - \_\_\_\_\_

Period- \_\_\_\_\_

Phase shift- \_\_\_\_\_

6.  $y = 3 \cos(\frac{1}{2}x + \frac{\pi}{2}) - 1$

Amp - \_\_\_\_\_

Period- \_\_\_\_\_

Phase shift- \_\_\_\_\_