

Determine the amplitude, period, horizontal shift, and vertical shift for each function.

Graph each function by labeling the x-axis and y-axis with significant coordinates.

$$\text{Amp} = 1$$

$$\text{Per} = \frac{2\pi}{B} = \frac{2\pi}{\frac{\pi}{2}}$$

$$\frac{2\pi}{1} \cdot \frac{2}{\pi} = 4$$

P.S. Right 1

V.S. Up 2

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

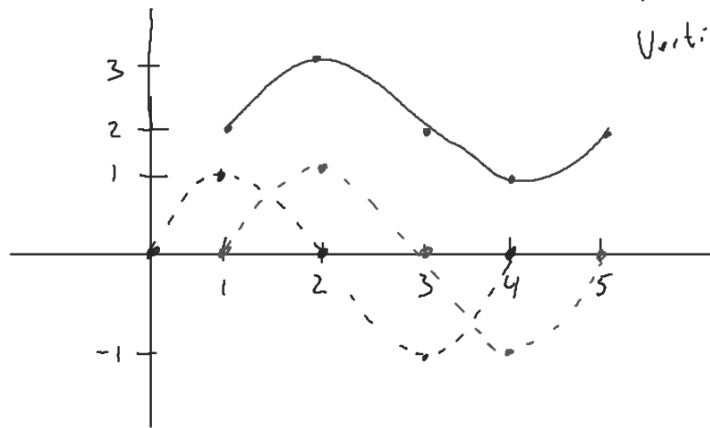
$$A \sin B(x - c) + D$$

$$A = \text{Amp}$$

$$\text{Per} = \frac{2\pi}{B}$$

$$\text{Phase Shift} = c$$

$$\text{Vertical Shift} = D$$



Determine the amplitude, period, horizontal shift, and vertical shift for each function.

Graph each function by labeling the x-axis and y-axis with significant coordinates.

$$\frac{2\pi}{8} = \frac{\pi}{4}$$

$$y = -\sin(4x - \pi)$$

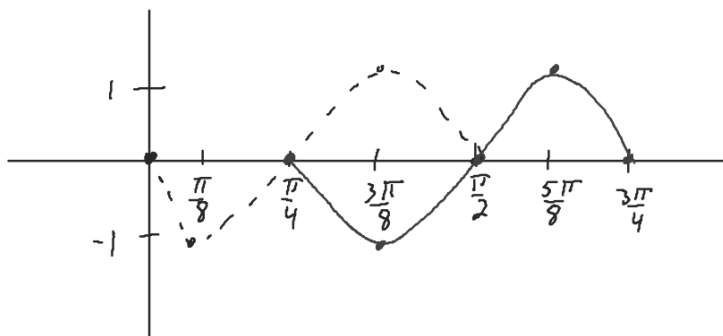
$$y = -\sin^4\left(x - \frac{\pi}{4}\right)$$

$$\text{Amp} = 1$$

$$\text{Per } \frac{2\pi}{8} = \frac{2\pi}{4} = \frac{\pi}{2}$$

$$\text{P.S. Right } \frac{\pi}{4}$$

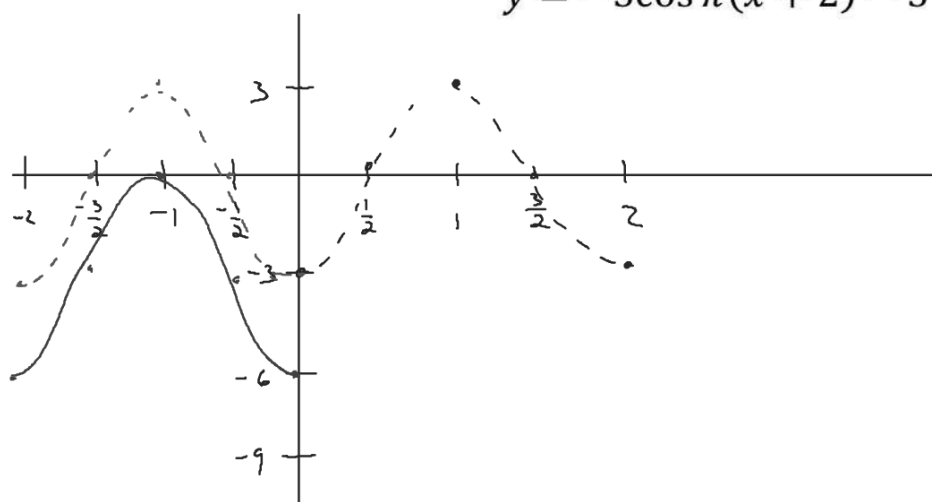
$$\text{V.S. None}$$



Determine the amplitude, period, horizontal shift, and vertical shift for each function.

Graph each function by labeling the x-axis and y-axis with significant coordinates.

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



$$A_{mp} = 3$$

$$Per \frac{2\pi}{\pi} = 2$$

P.S. Left 2

V.S. Down 3

Determine the amplitude, period, horizontal shift, and vertical shift for each function.

Graph each function by labeling the x-axis and y-axis with significant coordinates.

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