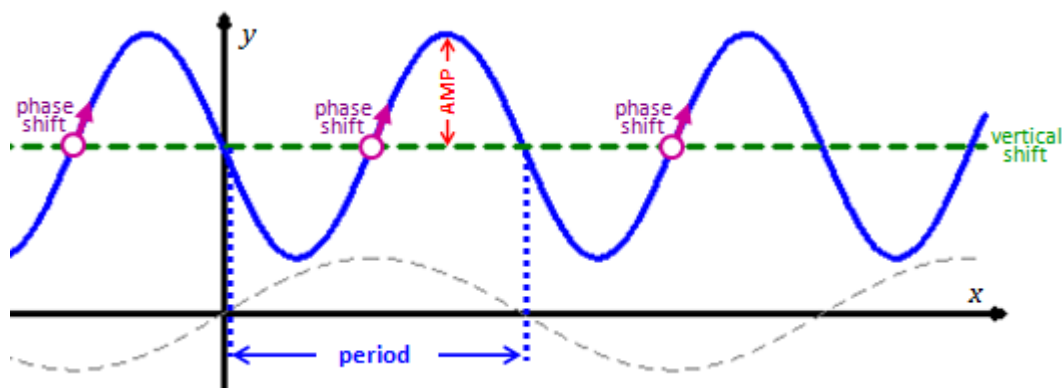




$$y = a \cdot \sin(b(x - c)) + d$$

a = Amplitude

c = Phase Shift

$$\frac{2\pi}{b} = \text{Period}$$

d = Vertical Shift

1. Determine the following parts of the graph described by following equation.

$$y = 4 \sin(\pi(x - 3)) + 5$$

2. Determine the following parts of the graph described by following equation.

$$y = 3 \sin\left(\frac{1}{2}\left(x - \frac{3\pi}{2}\right)\right) + 4$$

Amplitude =

Period =

Phase Shift =

Vertical Shift =

Amplitude =

Period =

Phase Shift =

Vertical Shift =

3. Determine the following parts of the graph described by following equation.

$$y = -5 \sin(2x + 6) - 1$$

Amplitude =

Period =

Phase Shift =

Vertical Shift =

4. Determine the following parts of the graph described by following equation.

$$y = 4 \sin(\pi x - 2) + 6$$

Amplitude =

Period =

Phase Shift =

Vertical Shift =