

UNIT 6 WORKSHEET 18
GRAPHING SINE FUNCTIONS

SINE FUNCTIONS

Standard Form: $y = a \sin(bx - c) + d$

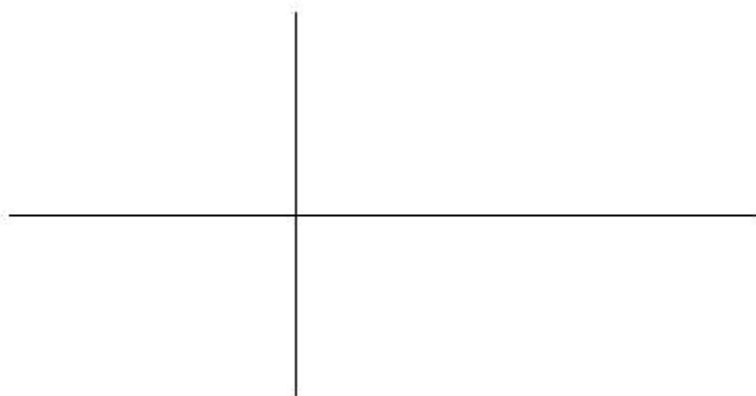
Amplitude:

Period:

Phase Shift:

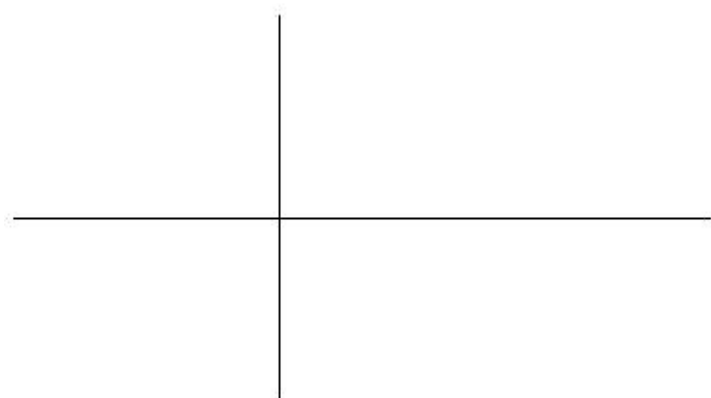
Initial Interval:

Parent Function $y = \sin x$



Practice Problems

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



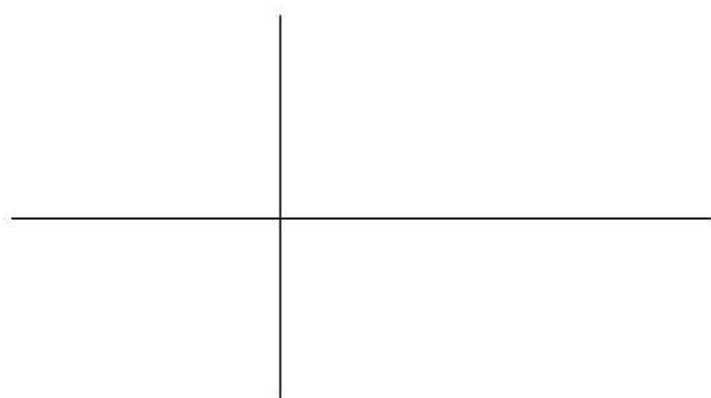
Amplitude:

Period:

Phase Shift:

Initial Interval:

$$y = \sin(x + \pi)$$



Amplitude:

Period:

Phase Shift:

Initial Interval:

$$y = -3 \sin(2x)$$



Amplitude:

Period:

Phase Shift:

Initial Interval:

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



Amplitude:

Period:

Phase Shift:

Initial Interval:

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



Amplitude:

Period:

Phase Shift:

Initial Interval:

$$y = 2 \sin(2\pi x) - 2$$



Amplitude:

Period:

Phase Shift:

Initial Interval: