

UNIT 6 WORKSHEET 19
GRAPHING COSINE FUNCTIONS

COSINE FUNCTIONS

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

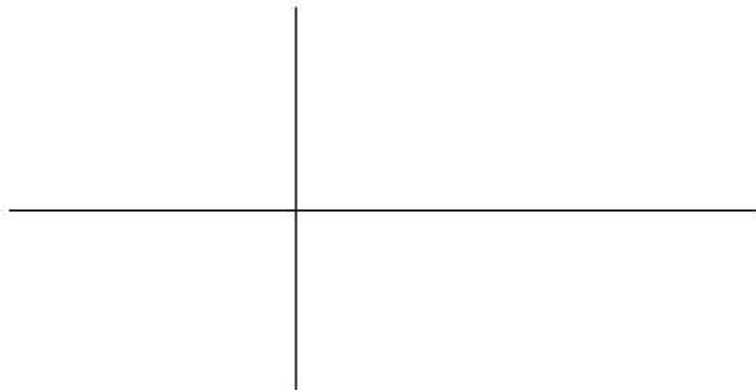
Amplitude:

Period:

Phase Shift:

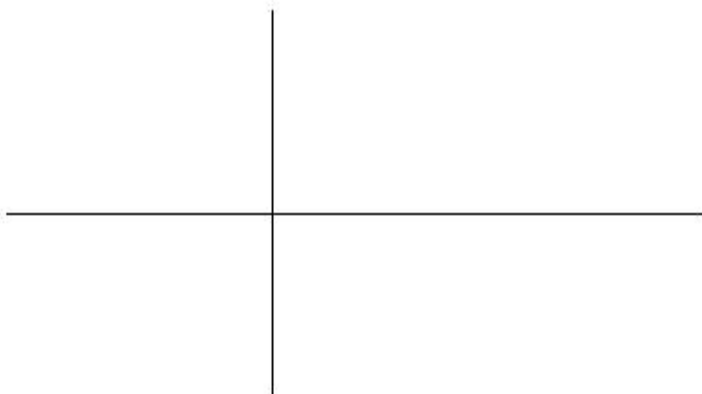
Initial Interval:

Parent Function $y = \cos x$



Practice Problems

$$y = 3 \cos\left(x - \frac{\pi}{2}\right)$$



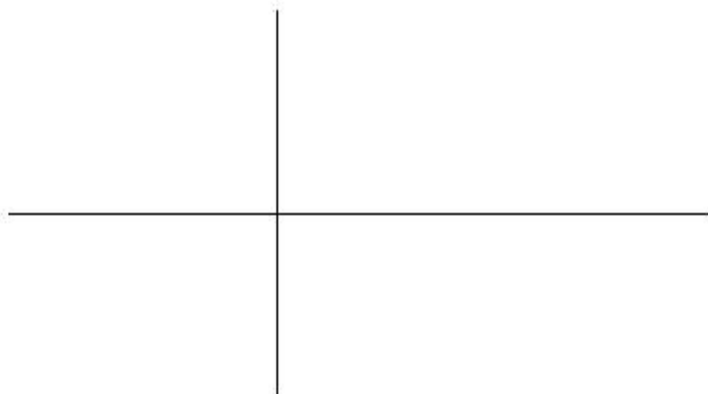
Amplitude:

Period:

Phase Shift:

Initial Interval:

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



Amplitude:

Period:

Phase Shift:

Initial Interval:

$$y = \cos(\pi x) + 1$$



Amplitude:

Period:

Phase Shift:

Initial Interval:

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



Amplitude:

Period:

Phase Shift:

Initial Interval:

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



Amplitude:

Period:

Phase Shift:

Initial Interval:

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



Amplitude:

Period:

Phase Shift:

Initial Interval: