

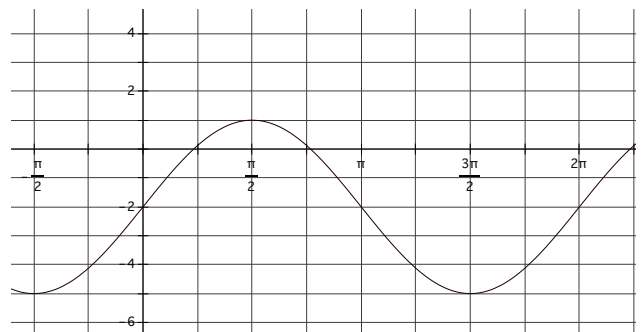
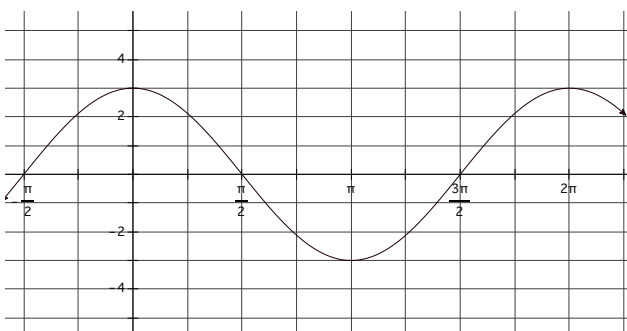
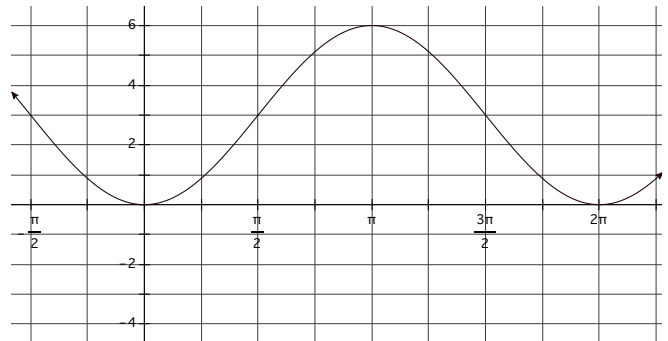
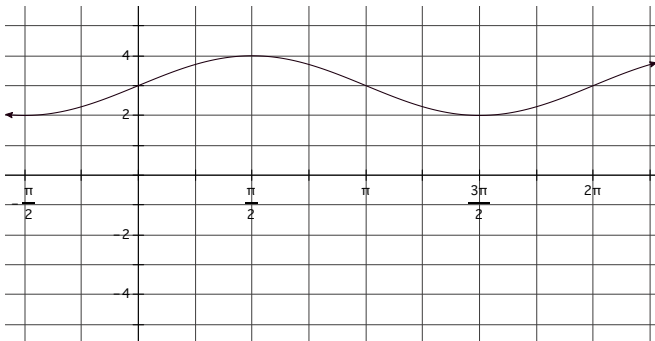
Warm Up: Match each equation to its graph.

$f(\theta) = 3\sin\theta - 2$

$f(\theta) = -3\cos\theta + 3$

$f(\theta) = 3\cos\theta$

$f(\theta) = \sin\theta + 3$



Example #1: Graph $f(\theta) = \cos 2\theta$

Amplitude: _____

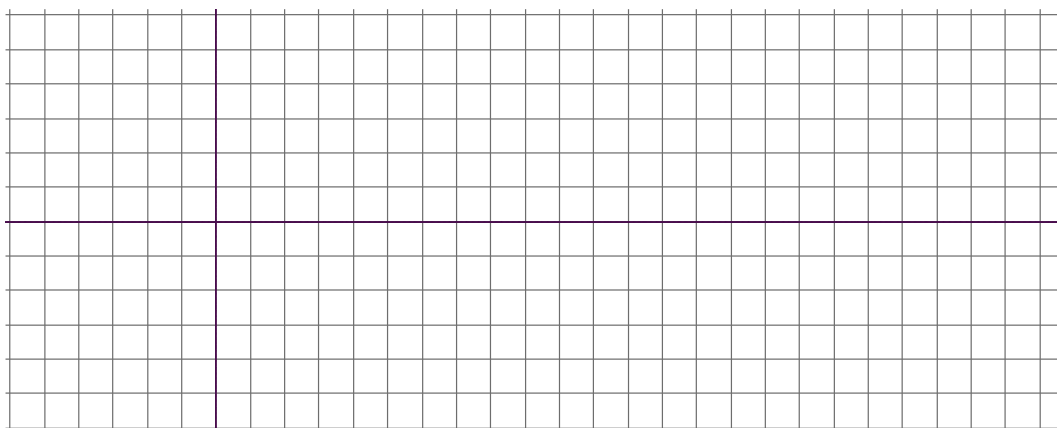
Period: _____

Vert. Shift: _____

Increment: _____

Horizontal Shift: _____

Key Values: _____

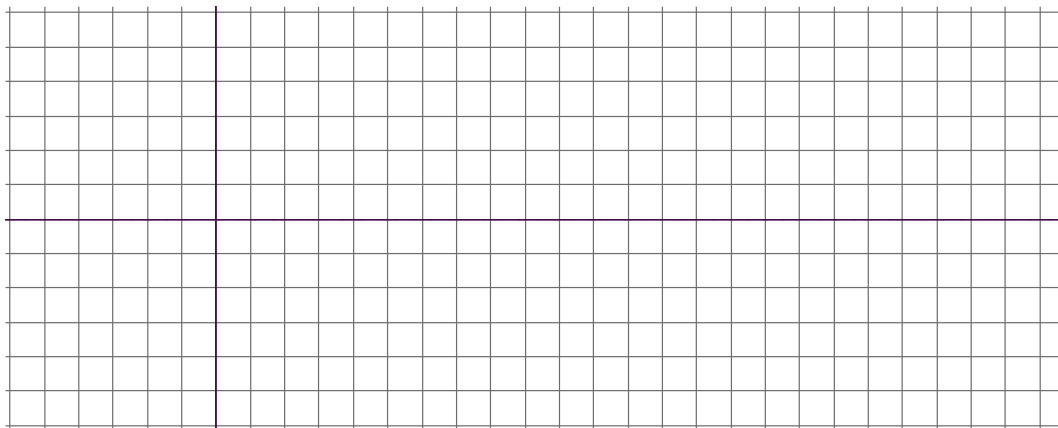


Example #2: Graph $f(\theta) = -\sin 4\theta$

Amplitude: _____ Period: _____

Vert. Shift: _____ Increment: _____

Horizontal Shift: _____ Key Values: _____

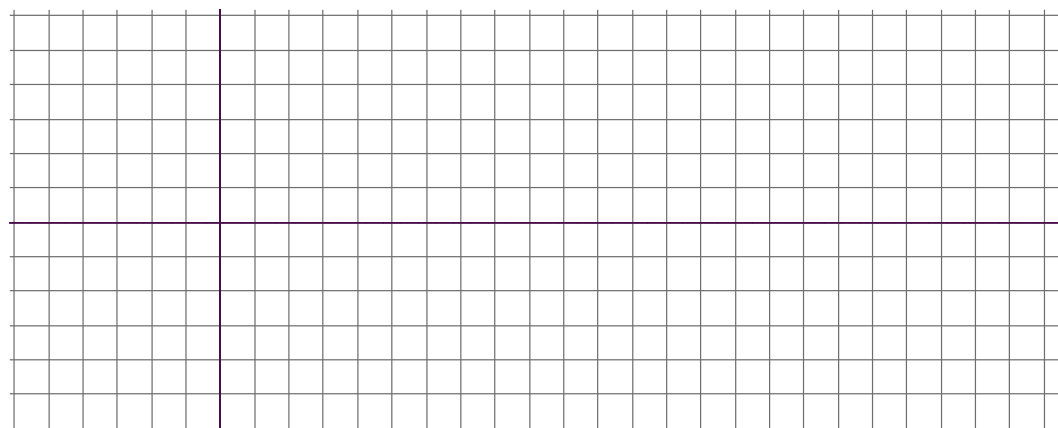


Example #3: Graph $f(\theta) = \sin\left(\theta - \frac{\pi}{3}\right)$

Amplitude: _____ Period: _____

Vert. Shift: _____ Increment: _____

Horizontal Shift: _____ Key Values: _____

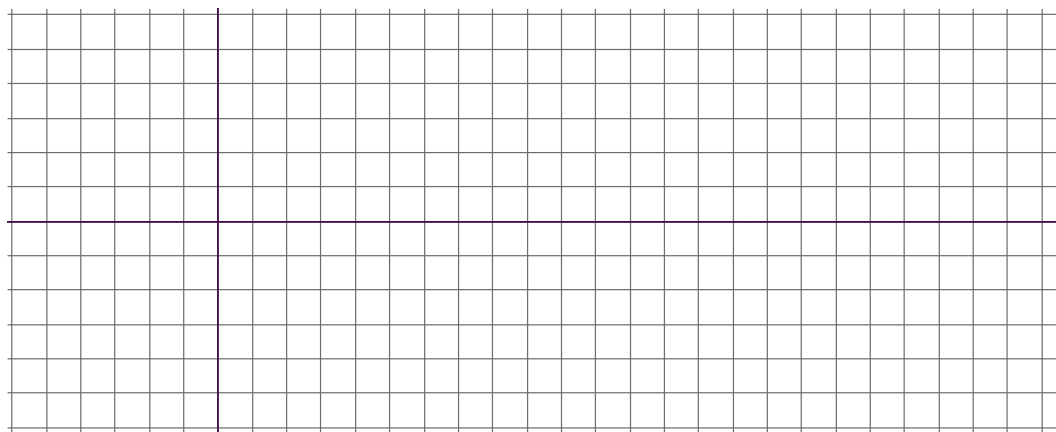


Example #4: Graph $f(\theta) = 3\cos 2\left(\theta + \frac{\pi}{6}\right)$

Amplitude: _____ Period: _____

Vert. Shift: _____ Increment: _____

Horizontal Shift: _____ Key Values: _____

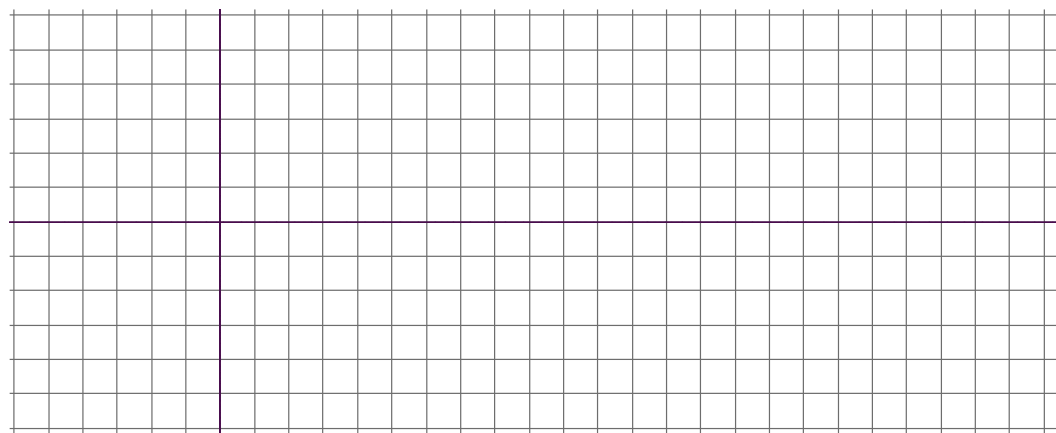


Example #5: Graph $f(\theta) = \sin(3\theta - \pi)$

Amplitude: _____ Period: _____

Vert. Shift: _____ Increment: _____

Horizontal Shift: _____ Key Values: _____



Assignment:

1. Graph $f(\theta) = 3\sin 2\theta$

Amplitude: _____

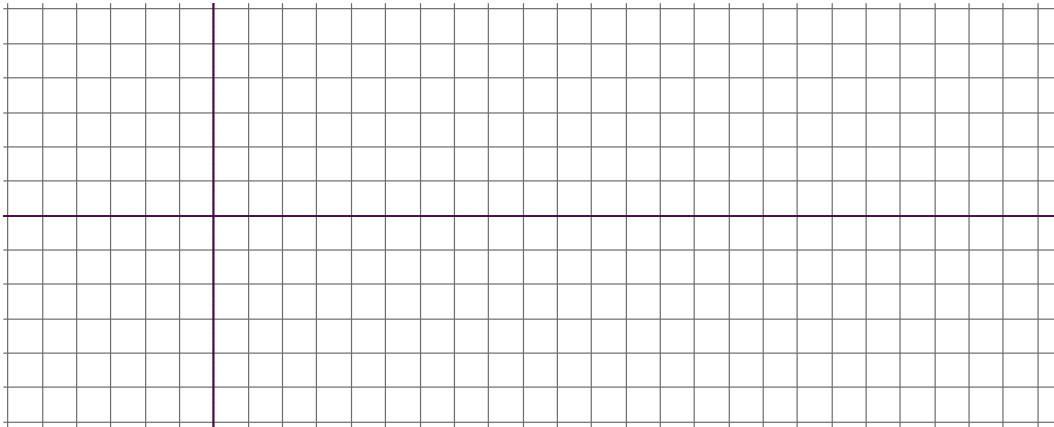
Period: _____

Vert. Shift: _____

Increment: _____

Horizontal Shift: _____

Key Values: _____



2. Graph $f(\theta) = -2\cos\left(\theta + \frac{\pi}{4}\right)$

Amplitude: _____

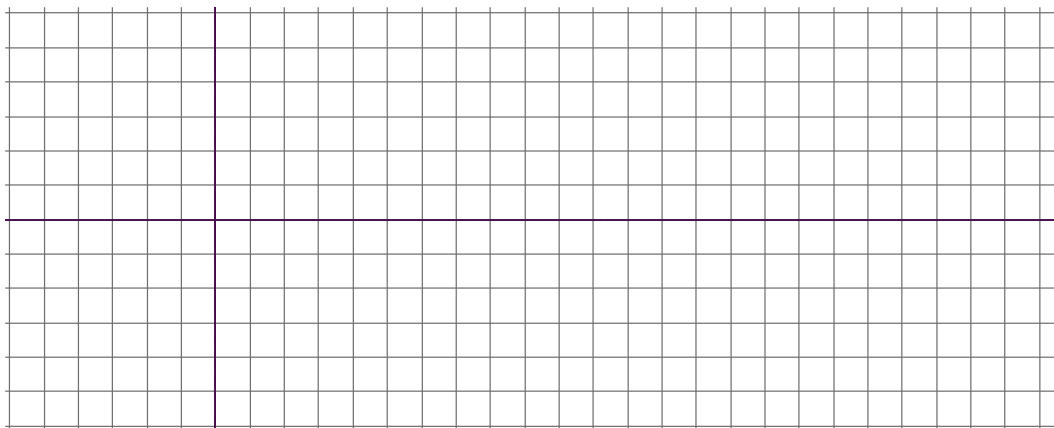
Period: _____

Vert. Shift: _____

Increment: _____

Horizontal Shift: _____

Key Values: _____



3. $f(\theta) = 2\cos 3\left(\theta + \frac{\pi}{3}\right)$

Amplitude: _____

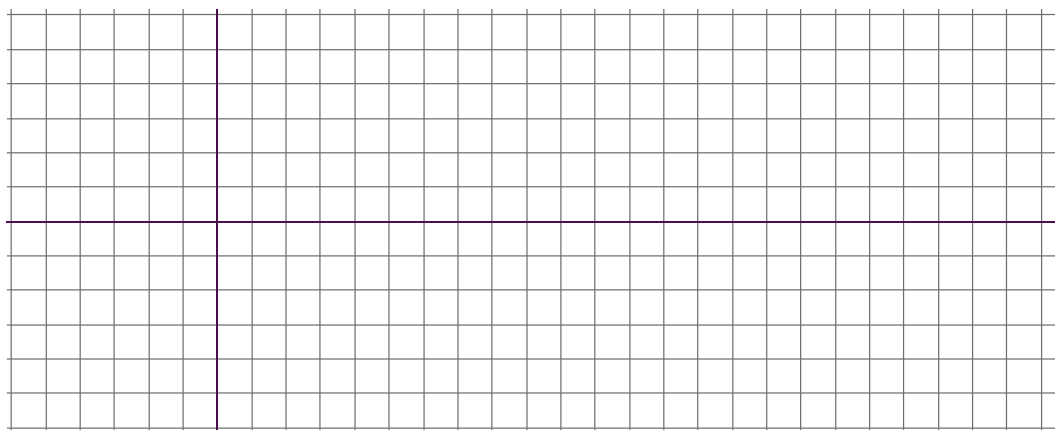
Period: _____

Vert. Shift: _____

Increment: _____

Horizontal Shift: _____

Key Values: _____



4. $f(\theta) = -\sin\left(4\theta - \frac{\pi}{3}\right)$

Amplitude: _____

Period: _____

Vert. Shift: _____

Increment: _____

Horizontal Shift: _____

Key Values: _____

