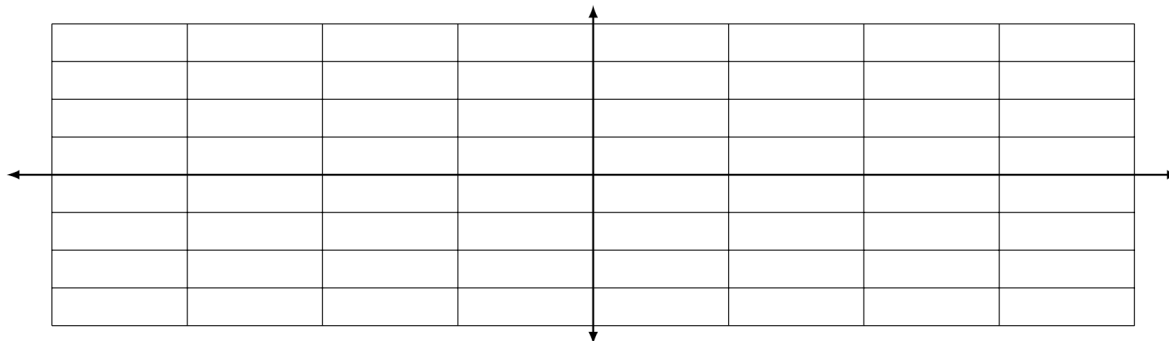


Assignment 7.4

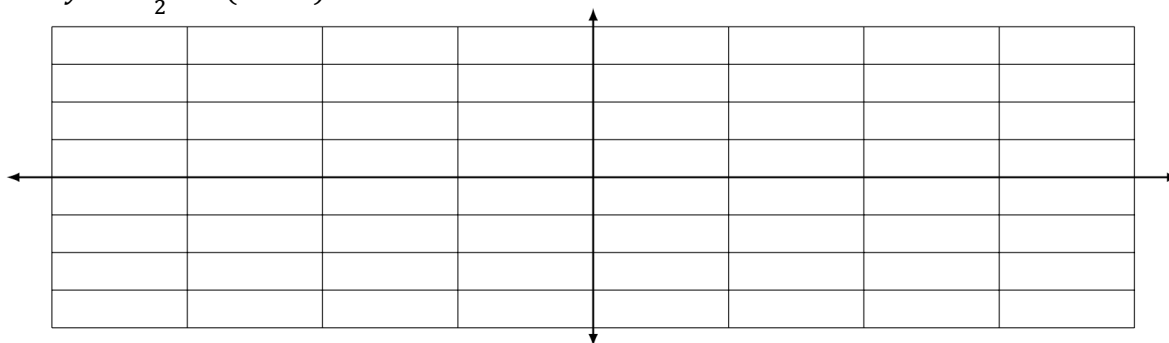
Graph each equation in the correct units, and then give the values of each part of the equation.

1. $y = -2\sin(3(\theta + 90))$



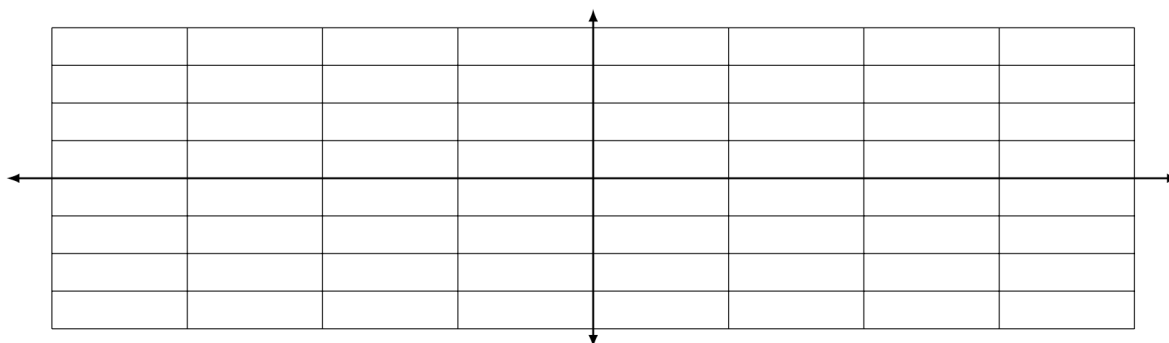
Amplitude: _____ Vertical Shift: _____ Period: _____ Phase Shift: _____

2. $y = -\frac{1}{2}\cos(x - \pi)$



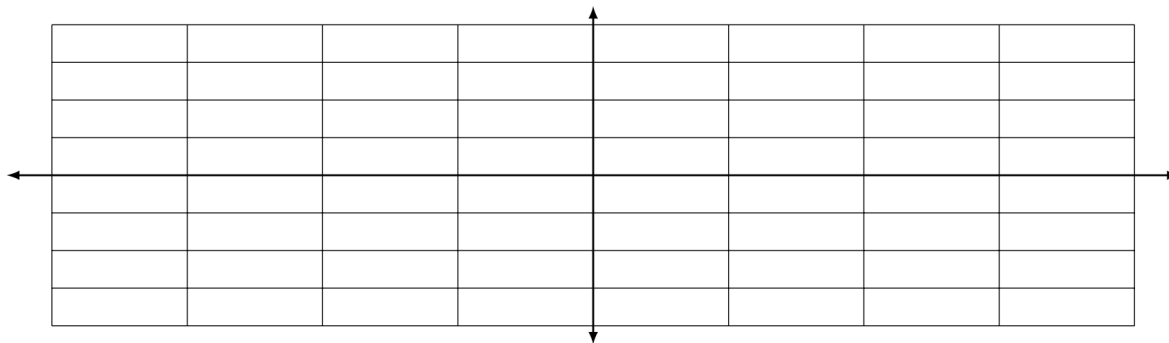
Amplitude: _____ Vertical Shift: _____ Period: _____ Phase Shift: _____

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



Amplitude: _____ Vertical Shift: _____ Period: _____ Phase Shift: _____

4. $y = 2 \sin(2\theta + 180) - 2$



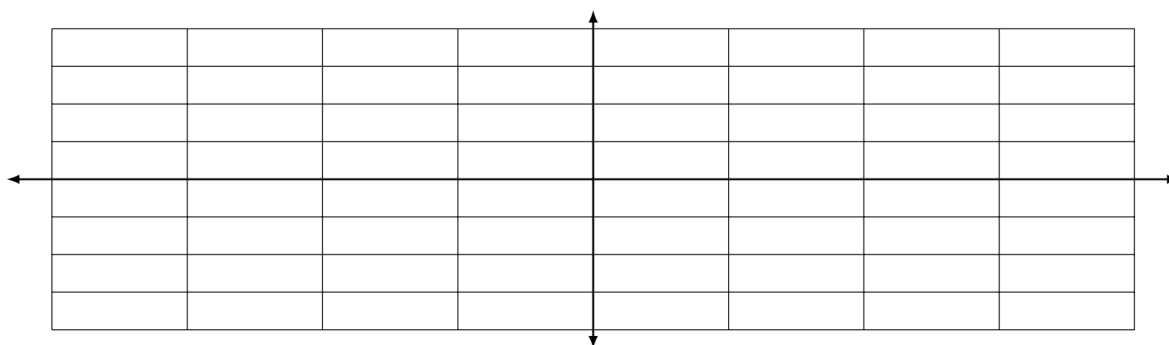
Amplitude:

Vertical Shift:

Period:

Phase Shift:

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



Amplitude:

Vertical Shift:

Period:

Phase Shift:

Write an equation using the given information.

6. A cosine function, with an amplitude of 5 and phase shift of 70° to the right.

7. A sine function with a vertical shift up 3 and a period of $\frac{\pi}{2}$.

8. A cosine function, with a vertical shift up 5, a period of 180° , an amplitude of 3, a phase shift of 90° to the left, and reflected over the center.