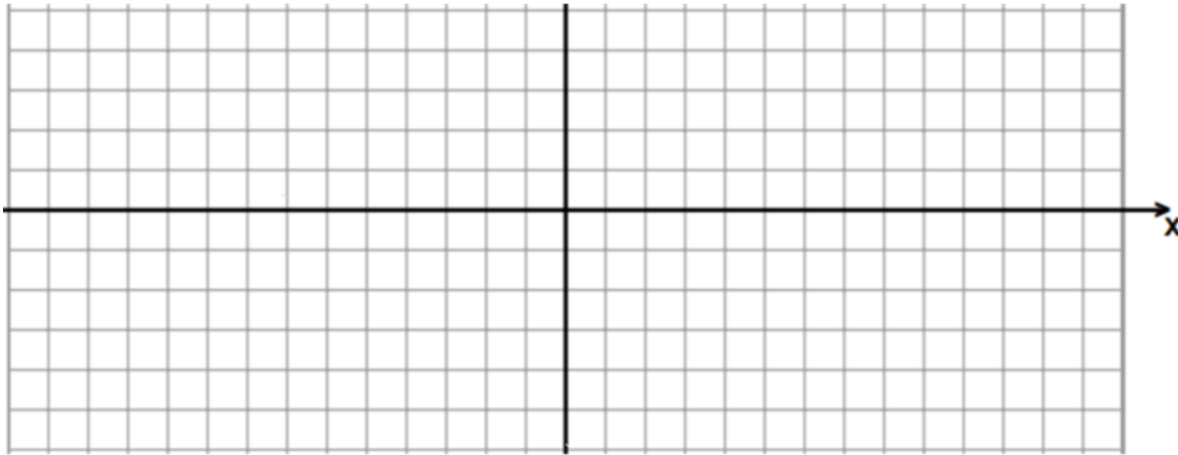


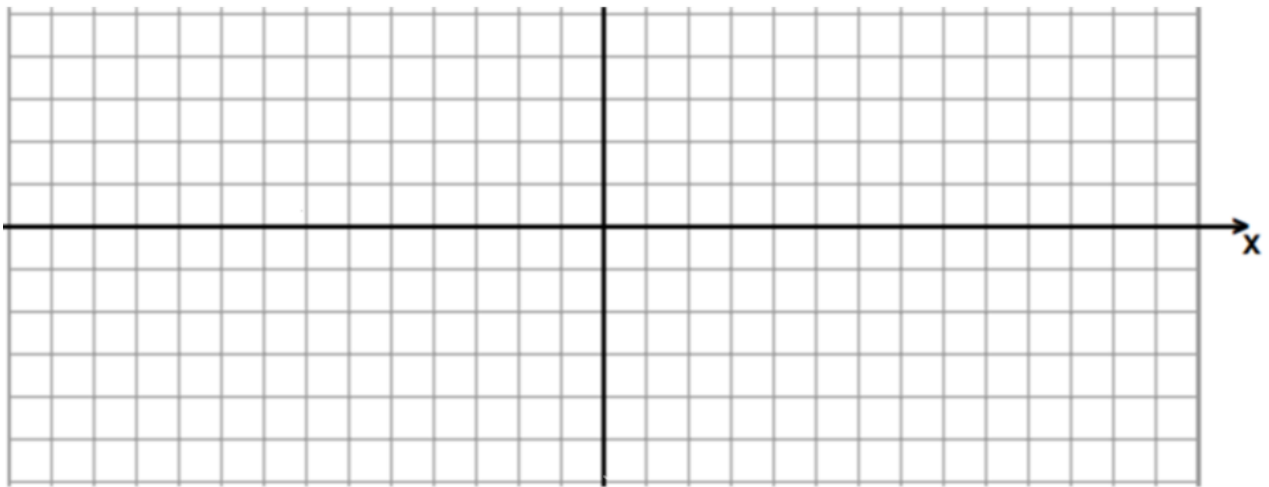
Graphing Sine and Cosine Curves with Phase Shifts – Sheet 2

Sketch at least two complete cycles of the following functions.

1. $y = -1 + \sin\left(x - \frac{\pi}{3}\right)$ Amplitude = _____ Period = _____ Vertical Shift = _____ Phase Shift = _____



2. $y = -2 \cos\left(\frac{4}{3}x - \frac{\pi}{2}\right) + 1$ Amplitude = _____ Period = _____ Vertical Shift = _____ Phase Shift = _____



3. $y = -1 + 3 \cos\left(\pi x + \frac{\pi}{4}\right)$ Amplitude = _____ Period = _____ Vertical Shift = _____ Phase Shift = _____

