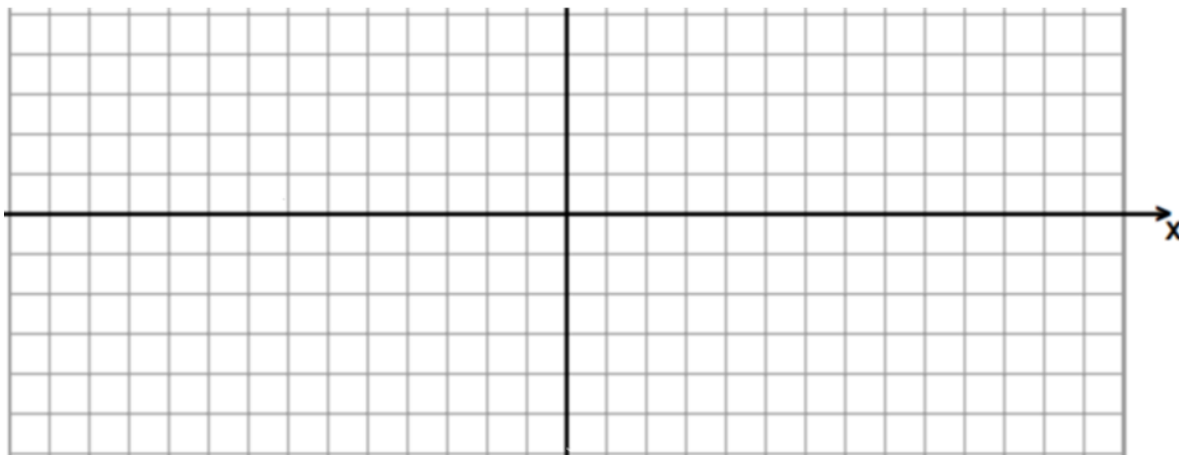


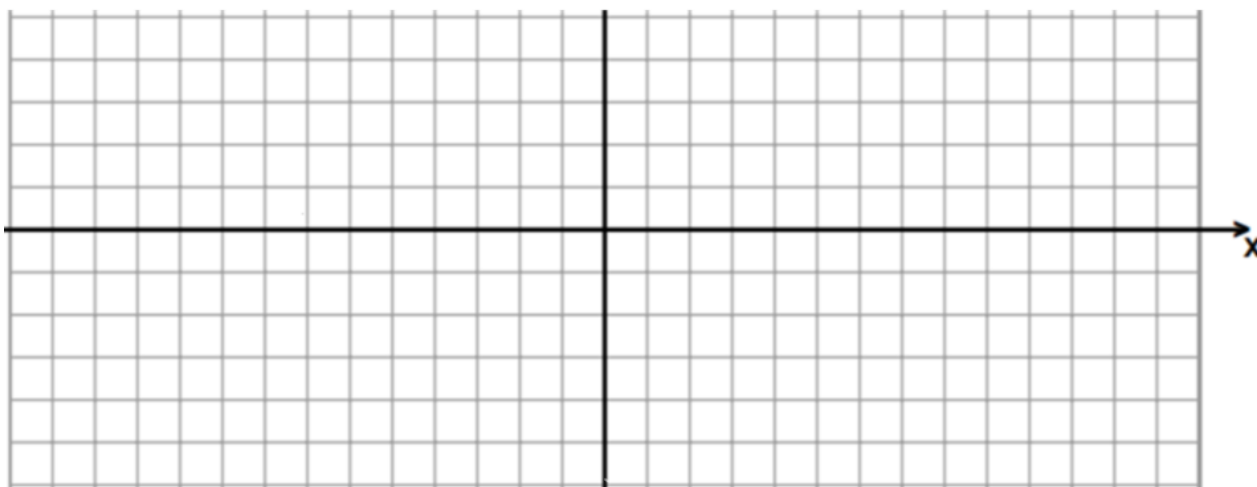
Graphing Sine and Cosine Curves with Phase Shifts

Sketch at least two complete cycles of the following functions.

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



2. $y = 2\sin\left(\frac{2}{3}x - \frac{\pi}{6}\right) - 1$ Amplitude = _____ Period = _____ Vertical Shift = _____ Phase Shift = _____



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

