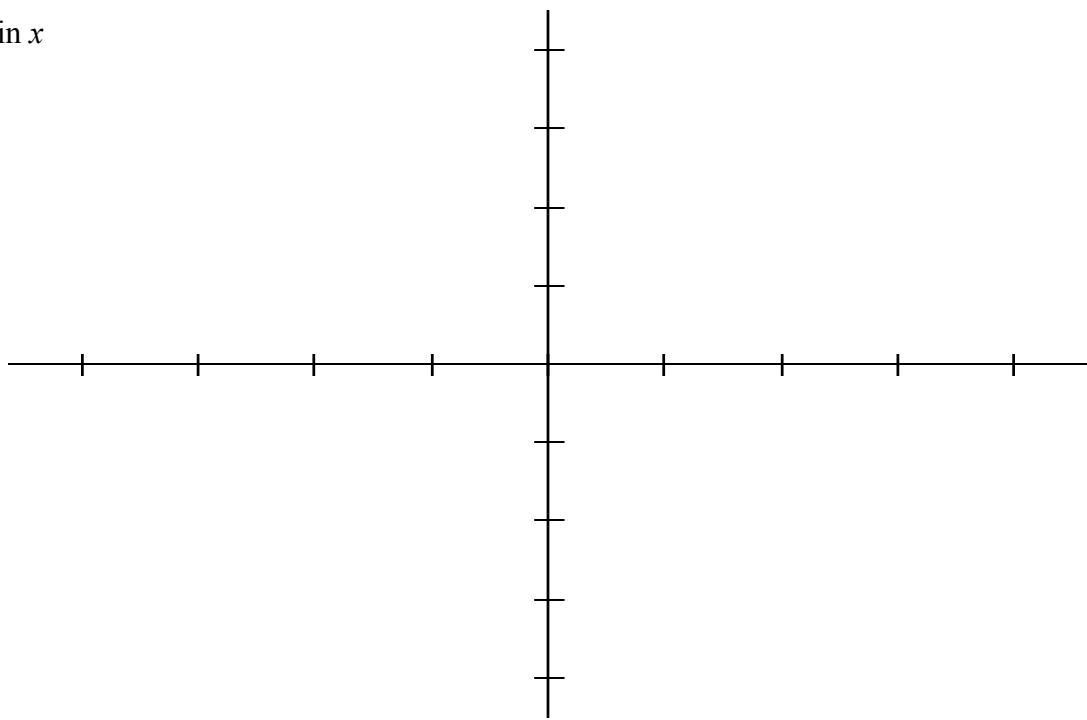


Graphing Periods, Horizontal and Vertical Shifts

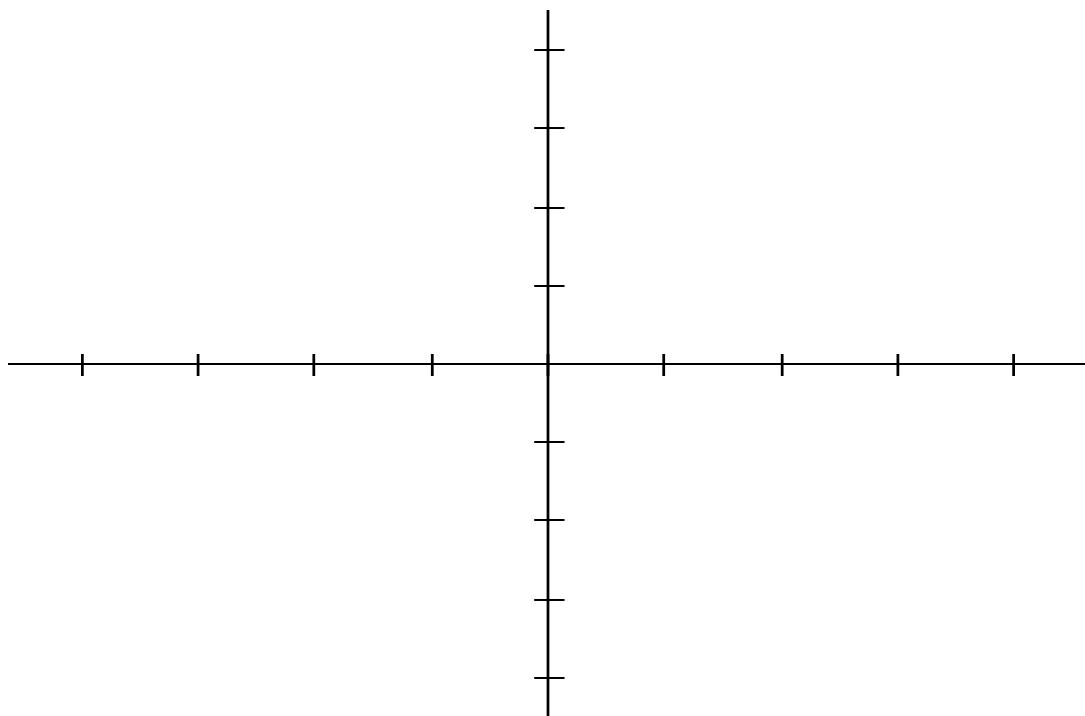
Name _____

Graph two periods of each trig function over the axes provided. Label each mark.

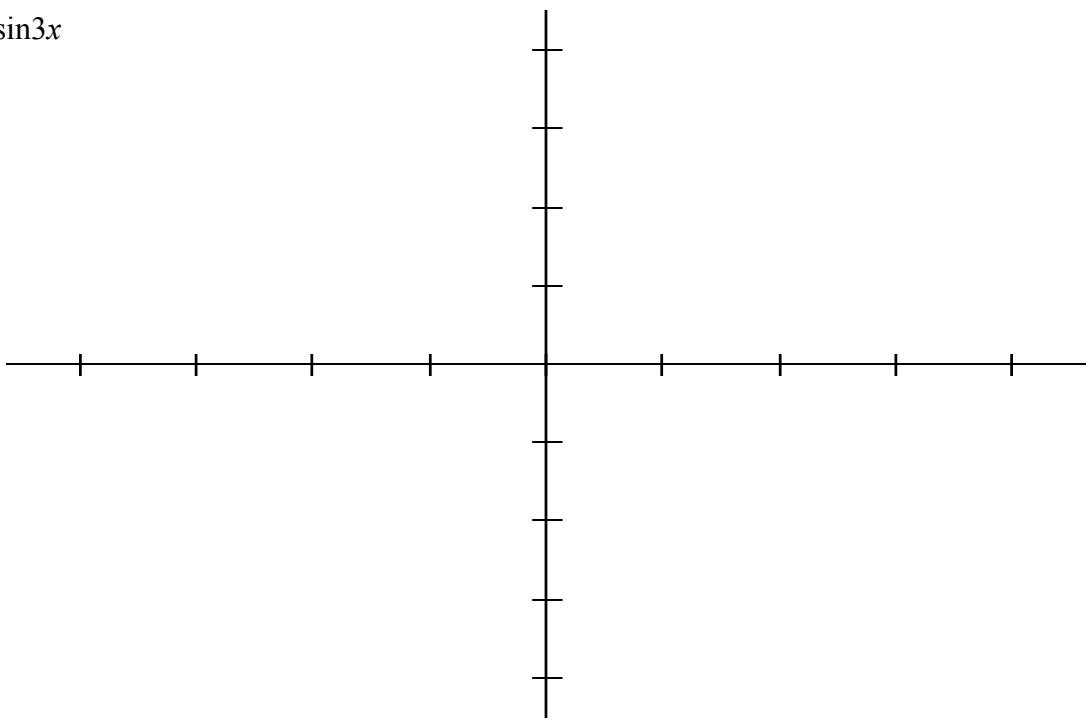
1) $y = \sin x$



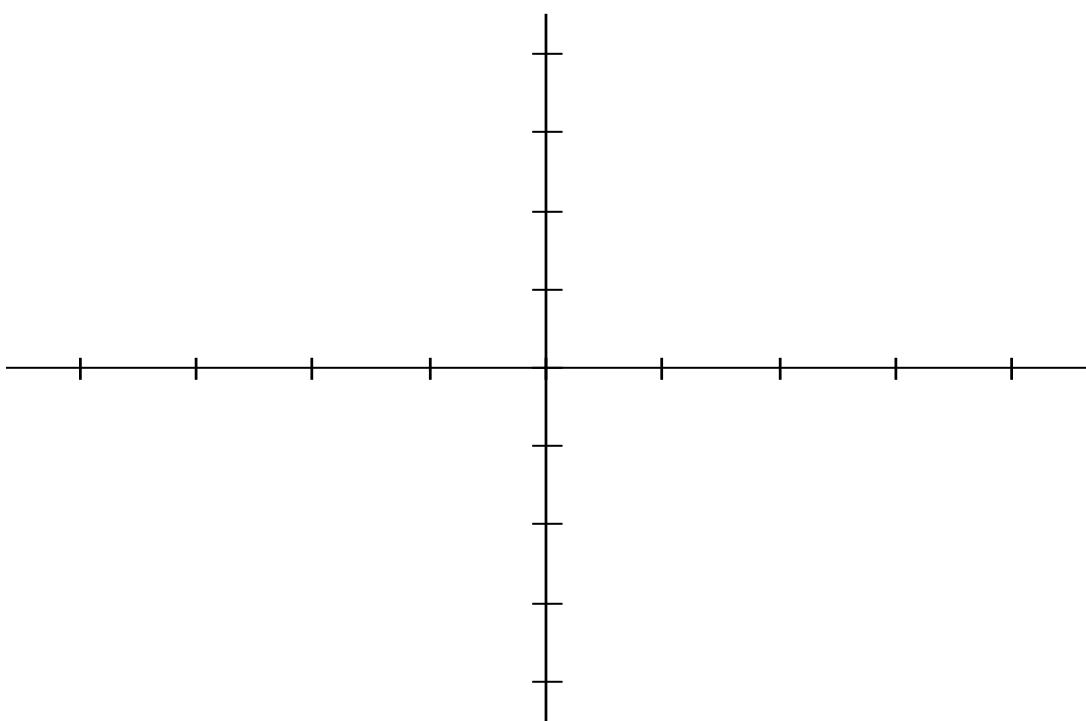
2) $y = \sin 3x$



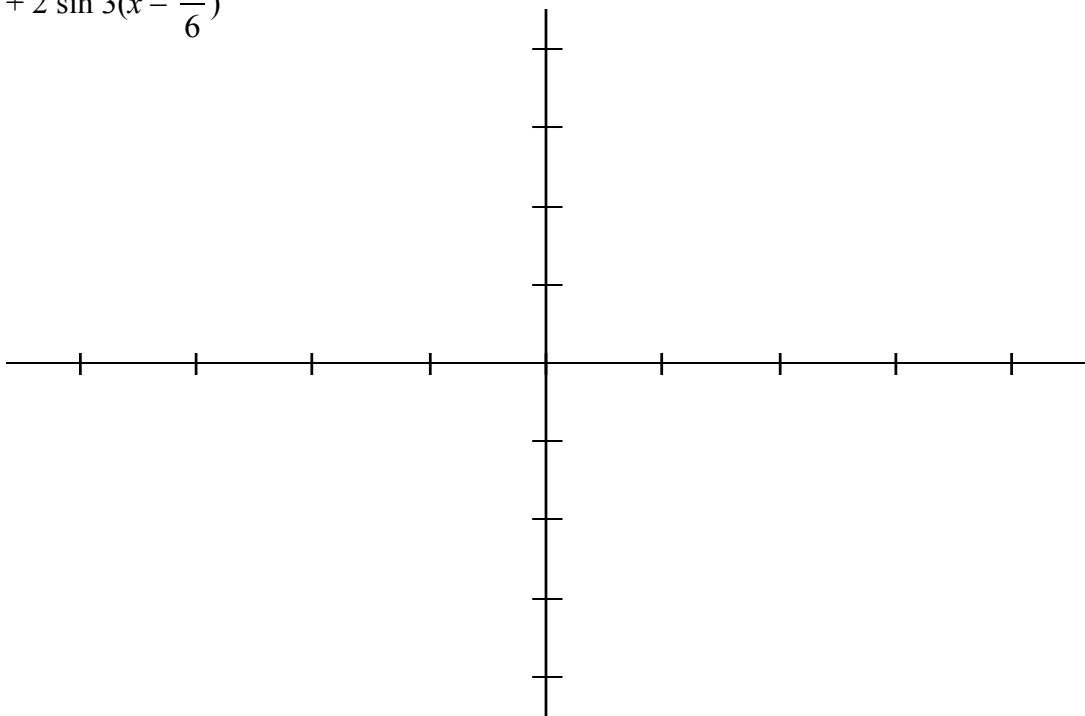
3) $y = 2\sin 3x$



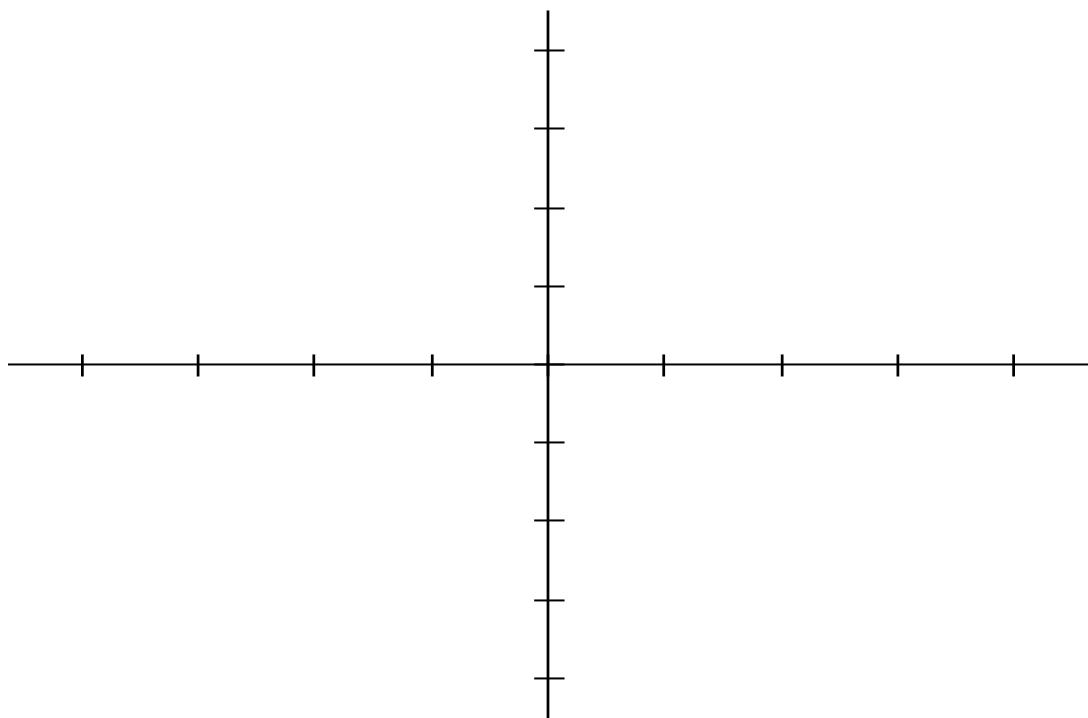
4) $y = 1 + 2\sin 3x$



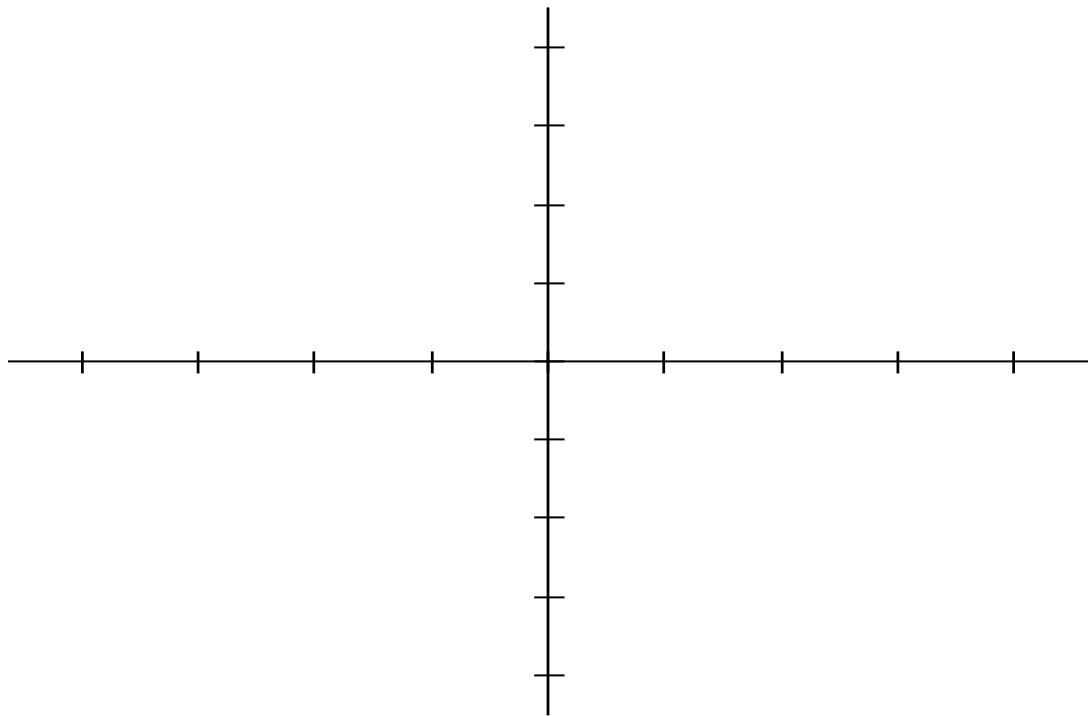
$$5) \quad y = 1 + 2 \sin 3(x - \frac{\pi}{6})$$



$$6) \quad y = 1 - 2 \sin 3(x - \frac{\pi}{6})$$



7) $y = 1 - 2 \sin \frac{\pi}{6}(x - 3)$



8) $y = 1 - 2 \cos \frac{\pi}{6}(x - 3)$

