4.4 Graphing Sine and Cosine Without Phase Shifts

$$y = A\sin\left[k(\theta - c)\right] + d \qquad y = A\cos\left[k(\theta - c)\right] + d$$

General Info:

|A |= amplitude

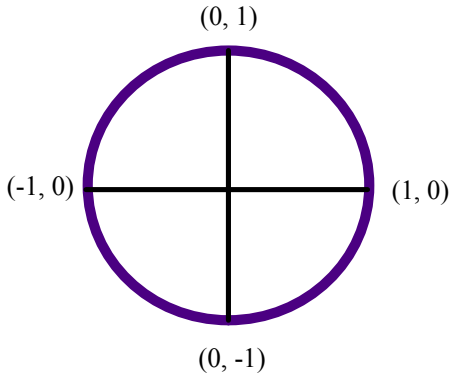
c = phase shift

$2\pi \div k$ = period

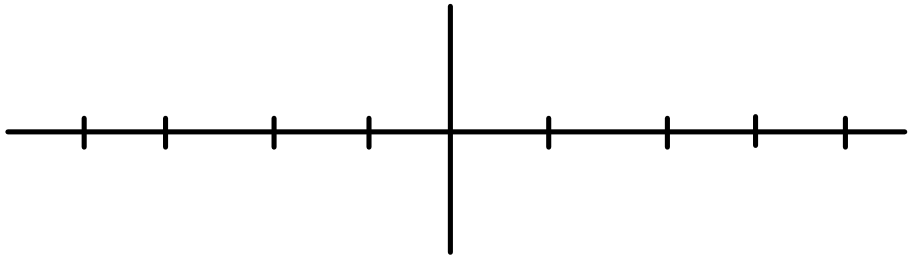
Period ÷ 4 = interval

d = vertical shift

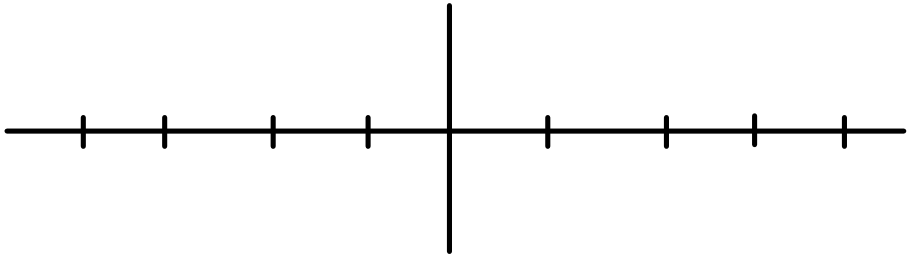
Graph By Hand....



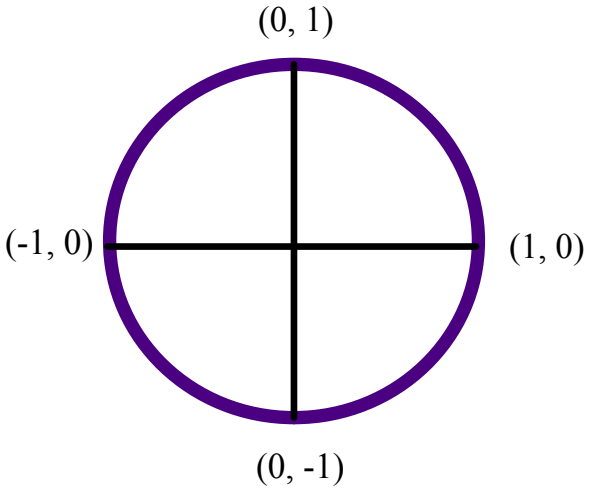
1. $y = \cos\theta$



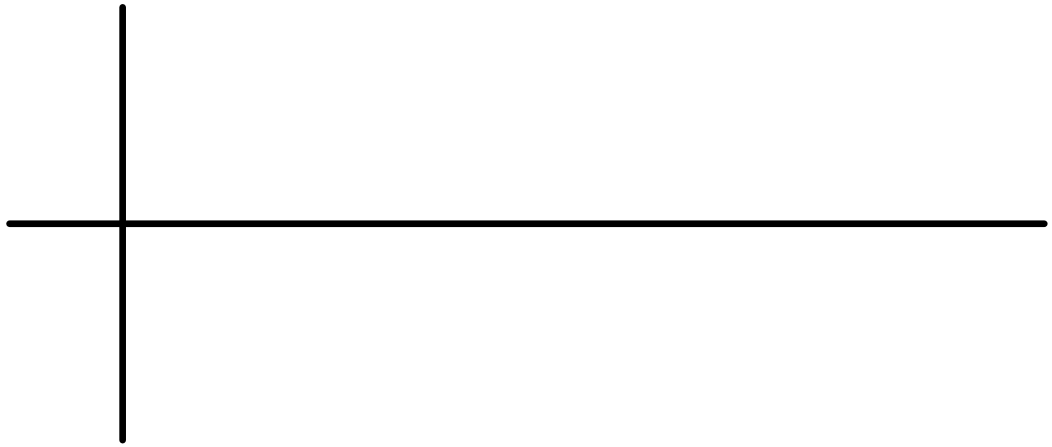
2. $y = \sin\theta$



Graph (from W.S.):



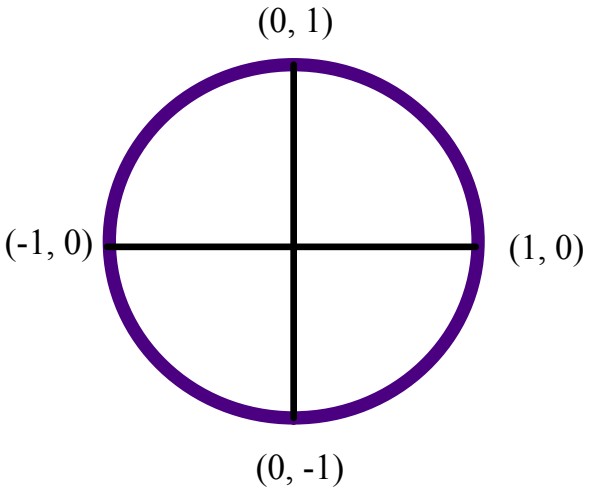
#5 $y = \frac{2}{3}\sin\theta$



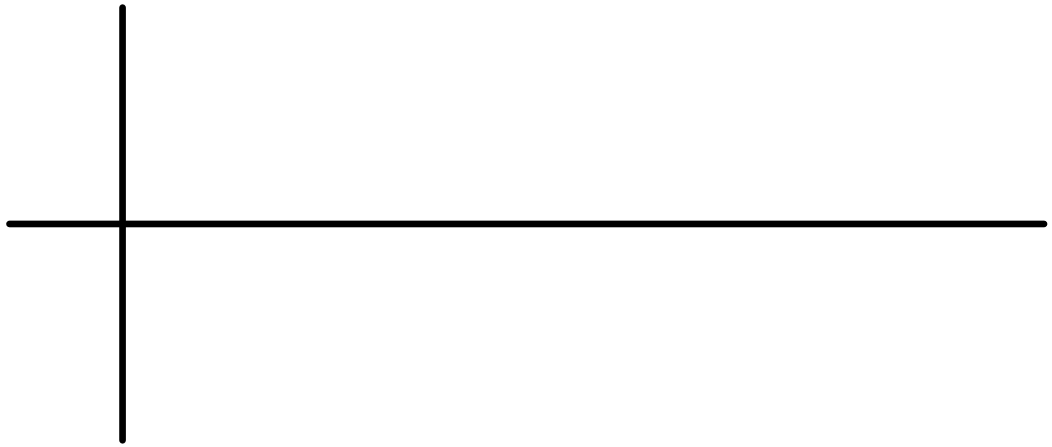
Amp.: _____ Period: _____

Interval: _____

Graph (from W.S.):



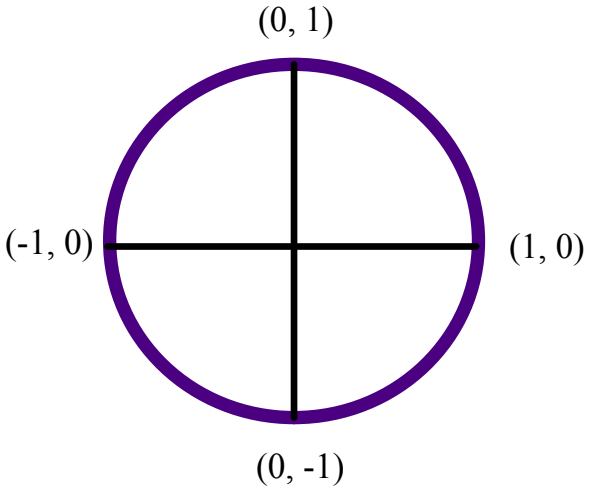
#8 $y = \cos(2x)$



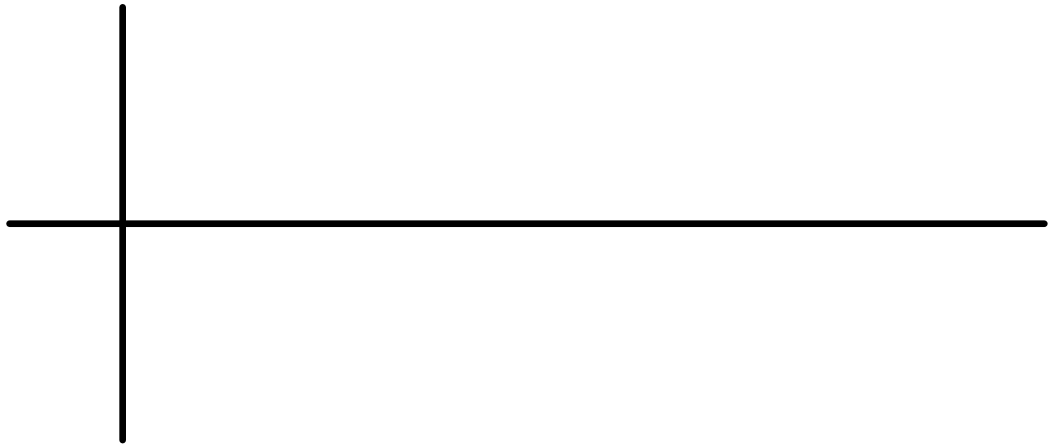
Amp.: _____ Period: _____

Interval: _____

Graph (from W.S.):



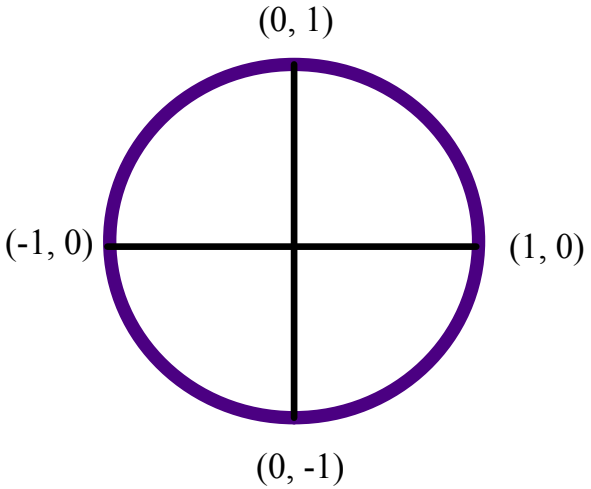
#15 $y = -3\cos x$



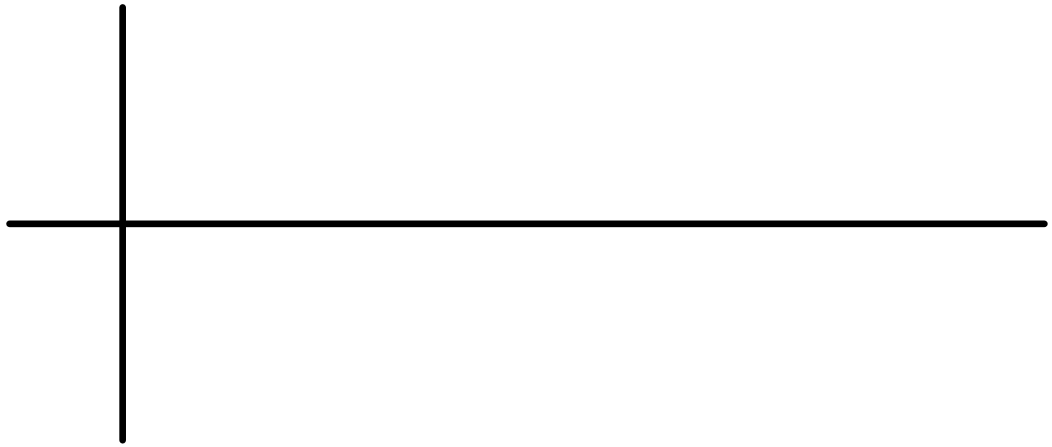
Amp.: _____ Period: _____

Interval: _____

Graph (from W.S.):



#16 $y = 2\sin\left(\frac{1}{4}x\right)$



Amp.: _____ Period: _____

Interval: _____

Assignment:

Graphing Sin and Cos without phase shifts W.S.