

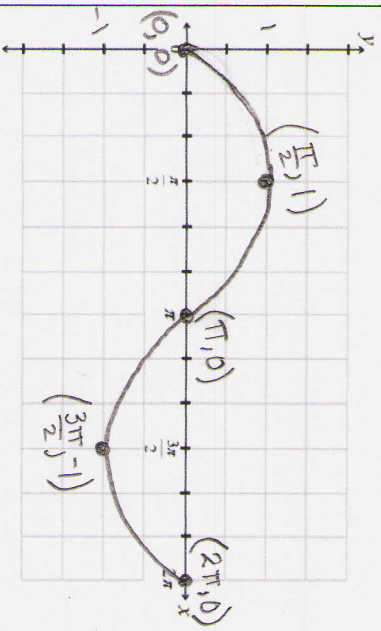
FER#4—Graphing Trig. Function

Trig/Stat—Fall 2015

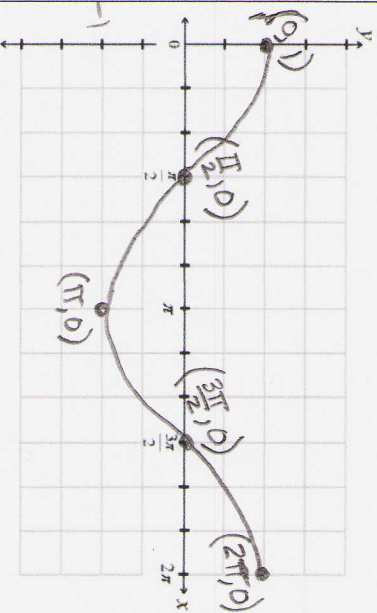
Name REEP Per _____

Graph one period of each parent function and label the 5 critical values.

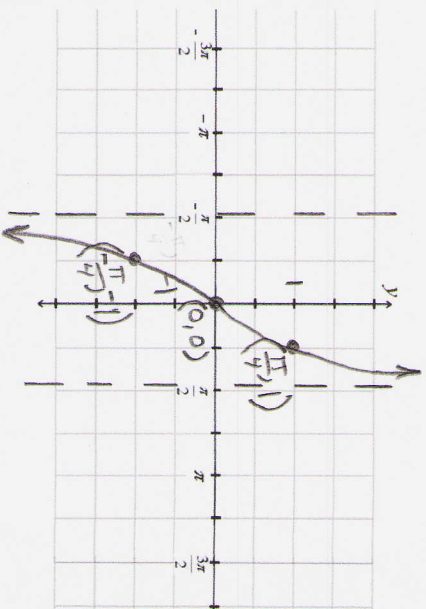
1) $y = \sin \theta$



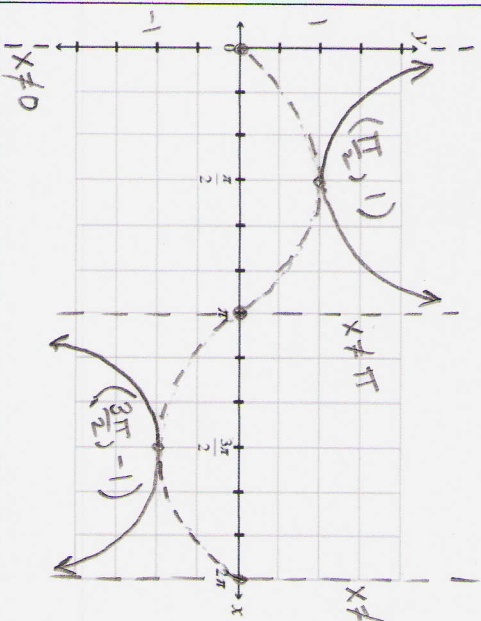
2) $y = \cos \theta$



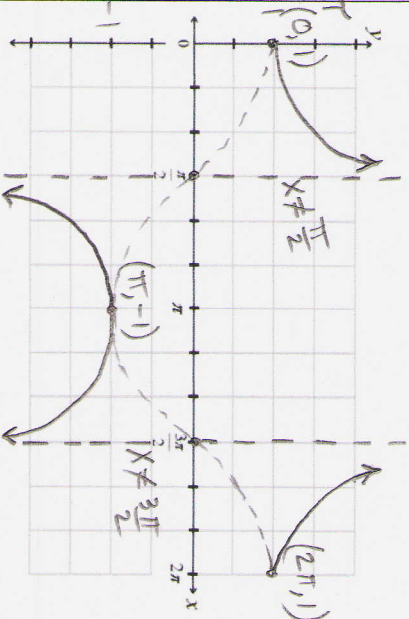
3) $y = \tan \theta$



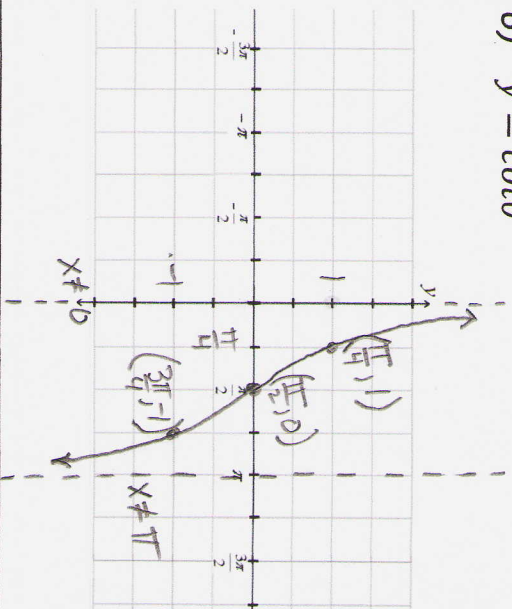
4) $y = \csc \theta$



5) $y = \sec \theta$



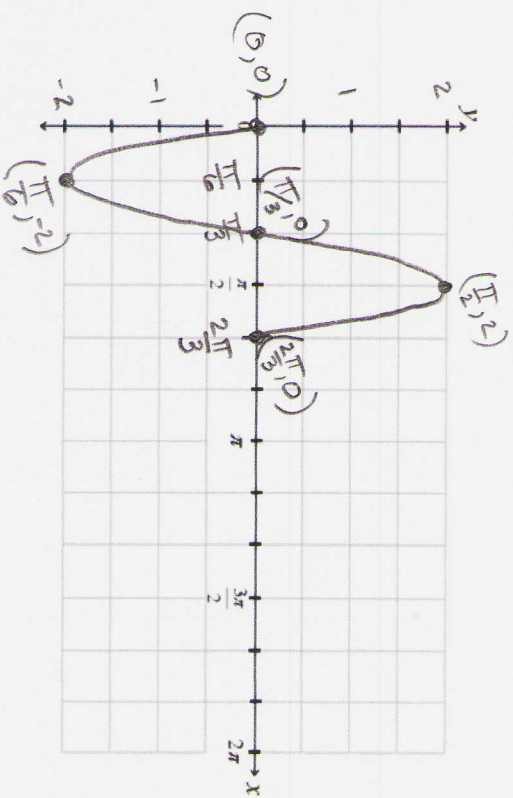
6) $y = \cot \theta$



Graph at least one period of each function and label the 5 critical values.

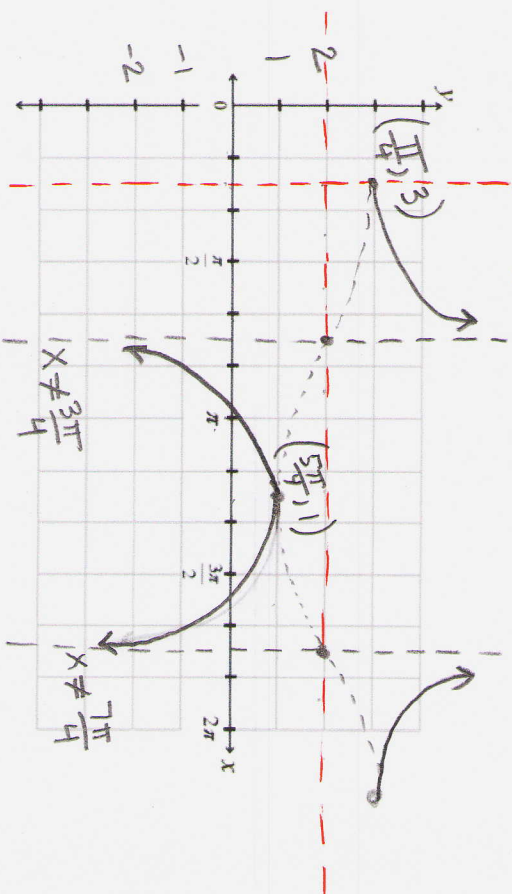
7) $y = -2\sin 3\theta$

Period = $\frac{2\pi}{\omega} = \frac{2\pi}{3}$

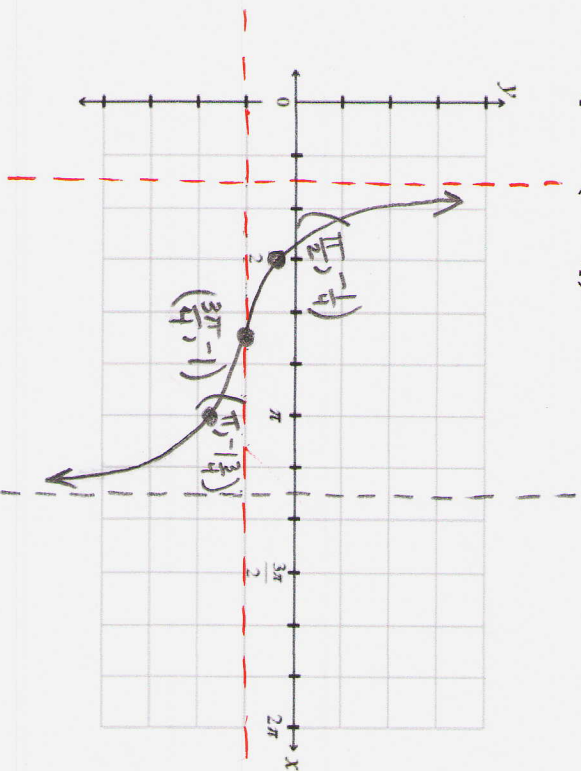


8) $y = \sec\left(\theta - \frac{\pi}{4}\right) + 2$

Period = 2π



9) $y = \frac{3}{4}\cot\left(\theta - \frac{\pi}{4}\right) - 1$



10) $y = -3\cos\left(2\theta - \frac{\pi}{2}\right) - 2 \Rightarrow y = -3\cos 2\left(\theta - \frac{\pi}{4}\right) - 2$

Period = $\frac{2\pi}{2} = \pi$

