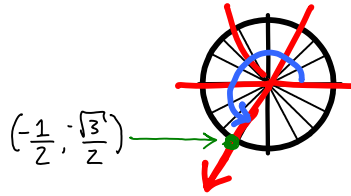


Name _____ Banner _____

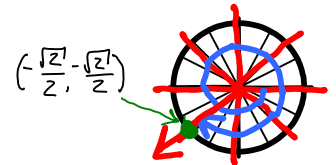
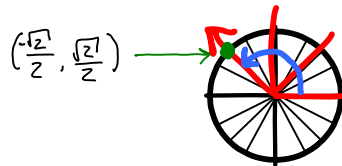
Fall 2007 Quiz #6 Solutions

#1) Evaluate the following functions for the given values.

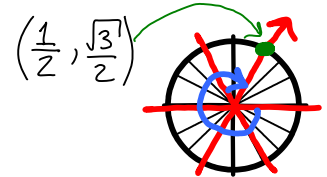
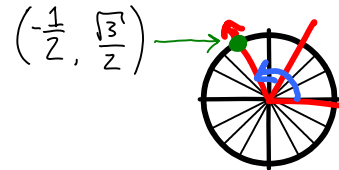
A) $\sin(4\pi/3) = -\sqrt{3}/2$



B) $\cos(-11\pi/4) = -\sqrt{2}/2 = -1/\sqrt{2}$



C) $\tan(3\pi/4) = \frac{\sqrt{2}/2}{-\sqrt{2}/2} = -1$

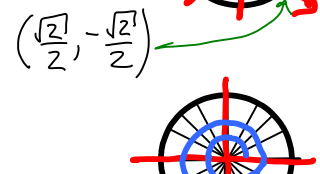
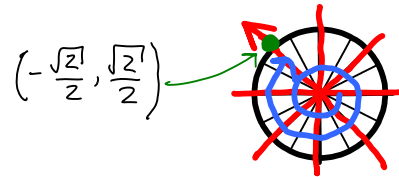


d) $\cot(-5\pi/3) = \frac{1/2}{\sqrt{3}/2} = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

e) $\sec(2\pi/3) = \frac{1}{-1/2} = -2$

f) $\csc(7\pi/4) = \frac{1}{-\sqrt{2}/2} = -\frac{2}{\sqrt{2}} = -\sqrt{2}$

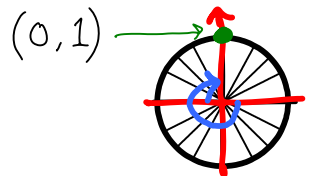
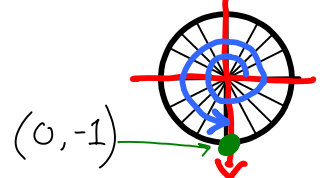
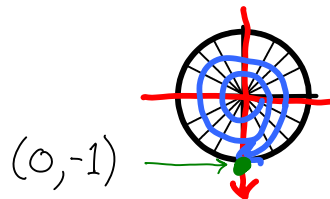
g) $\sin(-13\pi/4) = \frac{\sqrt{2}}{2}$



h) $\cos(7\pi/2) = 0$

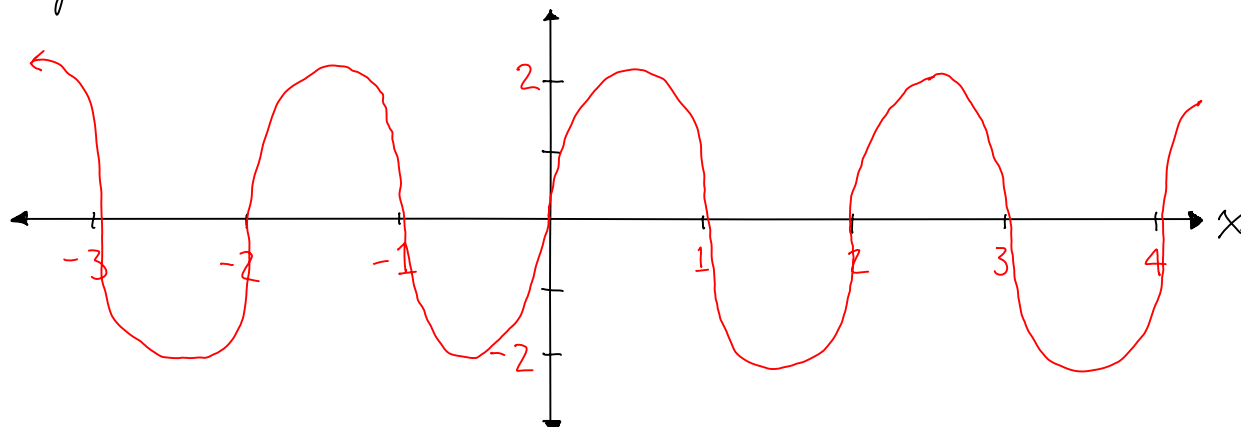
i) $\sin(-9\pi/2) = -1$

j) $\tan(-3\pi/2) = \frac{1}{0} = \text{undefined}$

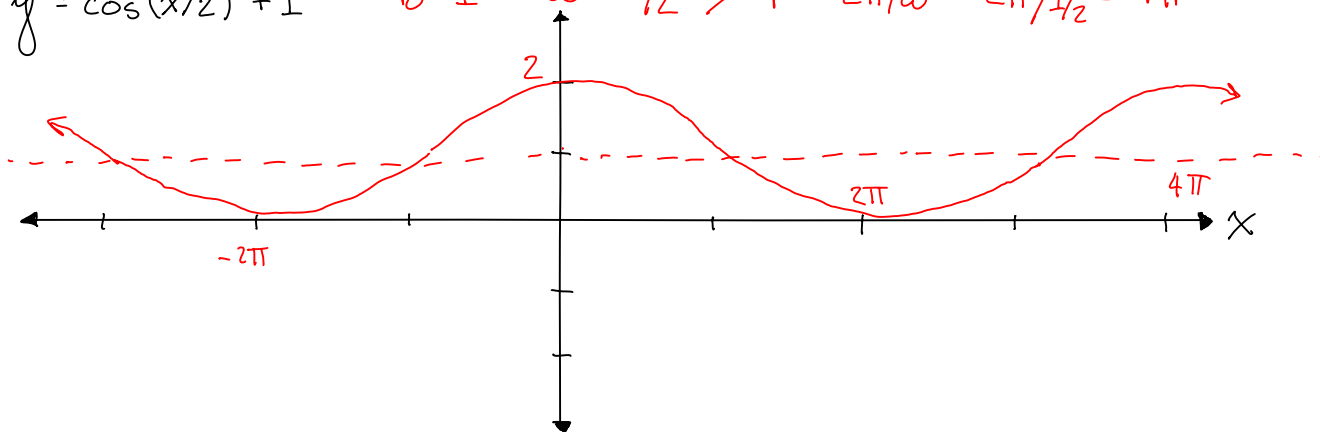


#2) Graph the following:

A) $y = 2\sin(\pi x)$ $A=2$ $\omega = \pi \Rightarrow T = 2\pi/\omega = 2\pi/\pi = 2$



B) $y = \cos(x/2) + 1$ $B=1$ $\omega = 1/2 \Rightarrow T = 2\pi/\omega = 2\pi/(1/2) = 4\pi$



C) $y = \frac{\sin(2x)}{2}$ $A=1/2$ $\omega = 2 \Rightarrow T = 2\pi/\omega = 2\pi/2 = \pi$

