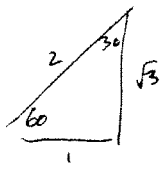
Math 122 HW #10

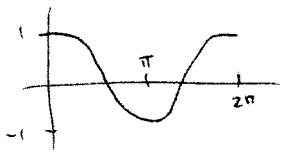
Section 13.1 33, 40, 41, 48, 60

#33 $\pi/3$ is 60°, so it's



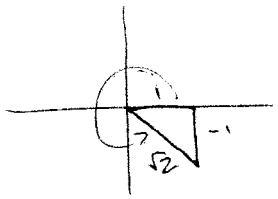
$\sin \pi/3 = \frac{opp}{hyp} = \frac{\sqrt{3}}{2}$

#40 $\sec \pi = \frac{1}{\cos \pi}$ cos x looks like



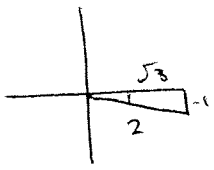
so $\cos \pi = -1$ so $\sec \pi = \frac{1}{-1} = -1$

#41 $7\pi/4$:



$\sin \frac{7\pi}{4} = \frac{opp}{hyp} = \frac{-1}{\sqrt{2}}$

#48 $-\pi/6$:
$= -30°$



$\cos -\pi/6 = \frac{adj}{hyp} = \frac{\sqrt{3}}{2}$.

#60 $y = 2\sin x$ amp = 2
period = 2π