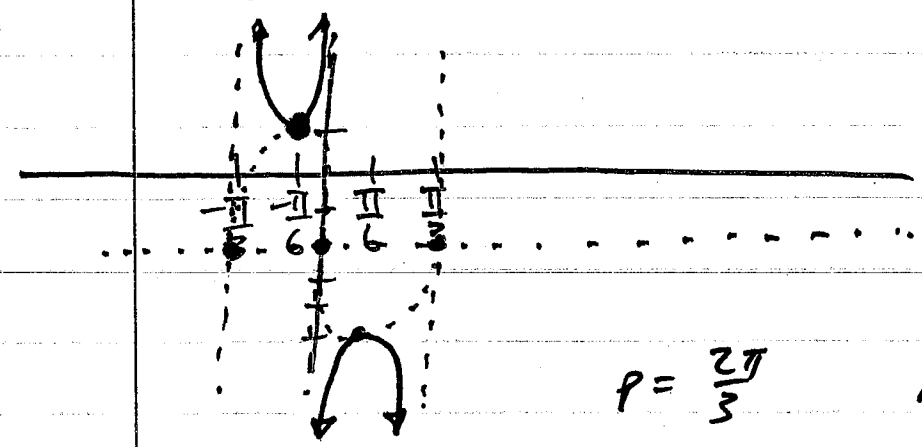
1.6

11 $y = 3\csc(3x+\pi) - 2$

$y = 3\csc 3\left(x+\frac{\pi}{3}\right) - 2$



$\frac{0}{3} = 0 \quad -\frac{\pi}{3} = -\frac{\pi}{3}$

$\frac{\pi}{2}\cdot\frac{1}{3} = \frac{\pi}{6} \quad -\frac{\pi}{3} = -\frac{\pi}{6}$

$\frac{\pi}{3} - \frac{\pi}{3} = 0$

$\frac{3\pi}{2}\cdot\frac{1}{3} = \frac{\pi}{2} \quad -\frac{\pi}{3} = \frac{\pi}{6}$

$\frac{2\pi}{3} - \frac{\pi}{3} = \frac{\pi}{3}$

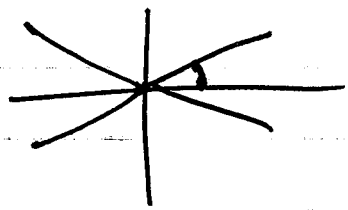
$P = \frac{2\pi}{3}$ RANGE $(-\infty, -5] \cup [1, \infty)$

DOMAIN: ALL REALS NOT MULTIPLES OF $\frac{\pi}{3}$

33 $\csc x = 2$

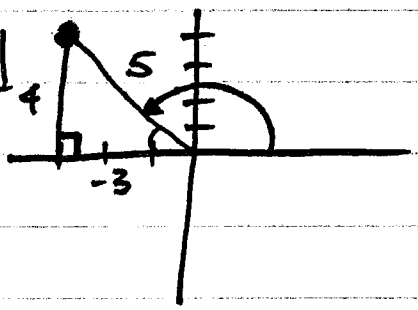
$\sin x = \frac{1}{2}$

$x \approx .524, 2.618$



$\pi - .524$

39



$\sin\theta = \frac{4}{5}$ $\quad \csc\theta = \frac{5}{4}$

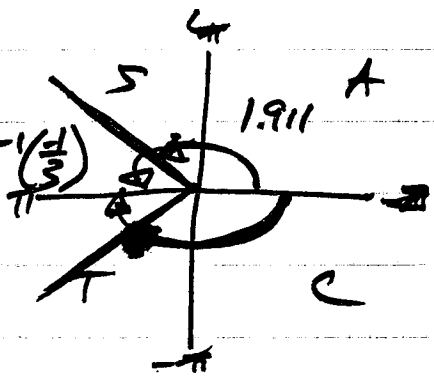
$\cos\theta = \frac{-3}{5}$ $\quad \sec\theta = \frac{-5}{3}$

$\tan\theta = \frac{-4}{3}$ $\quad \cot\theta = \frac{-3}{4}$

34 $\sec x = -3$

$\cos x = \frac{-1}{3}$ $\quad \cos^{-1}(\cos x) = \cos^{-1}\left(\frac{-1}{3}\right)$

$x \approx 1.911$ $\quad x =$



1.911

~~1.911~~

-1.911