Can graph using transformation of standard graphs. Wed, Feb 3
or Using graphing calculator. (best to use this as a check)

Math 112 – Section ____ ____ = ____ % NAME: Key
Quiz #4, version A Spring 2010 20
Sections 7.6-7.7 Seat location: ____

Label the axes with appropriate values. Asymptotes should be dashed lines. −1 if don't cut all lines for asymptotes.

13pts

2. For each of the following functions, **graph at at least two periods** (one period in the positive x direction and one period in the negative x direction.) Find the pertinent information (amplitude, period, divisions of period, etc.) **Plot at least 5 points in each period**. Label the axes with appropriate values

2pts label axes
1pt overall shape

a. $y = 1.5\cos(2x)$

1pt period: π

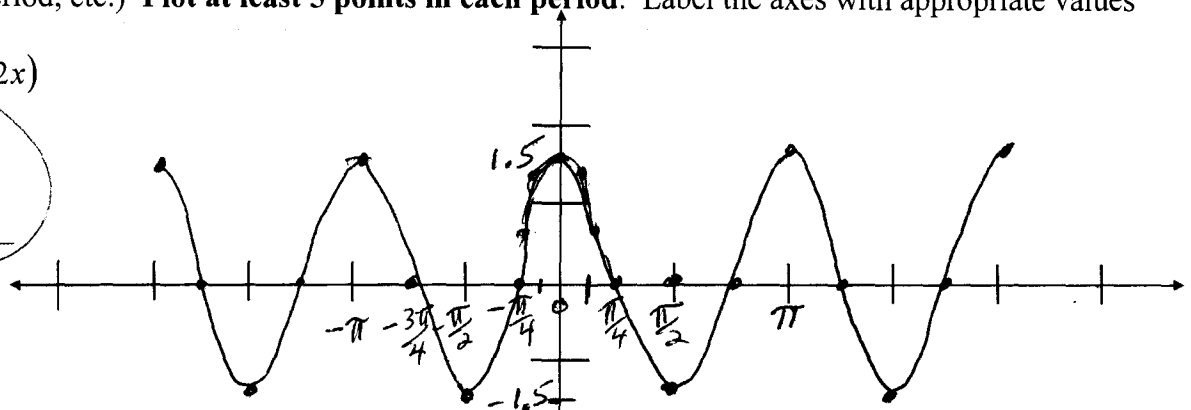
1pt amplitude: 1.5

$\pm\frac{\pi}{6}$ | .75

3pts

x	y
0	1.5
$\pm\pi$	1.5
$\pm\frac{\pi}{2}$	−1.5
$\pm\frac{\pi}{4}$	0
$\pm\frac{3\pi}{4}$	0
$\pm\frac{\pi}{8}$	1.06

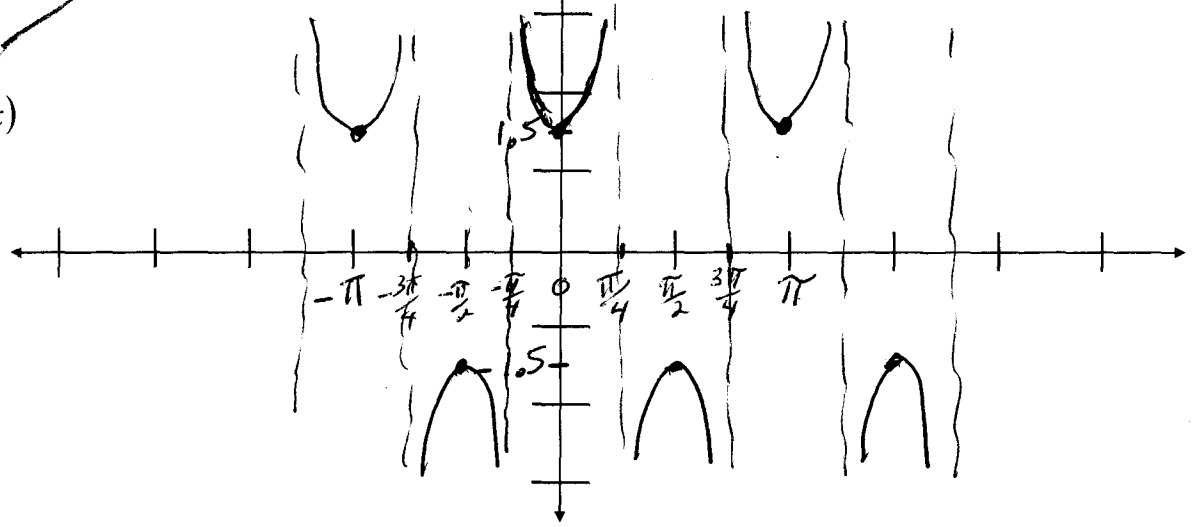
any correct pts are ok here



1pt asymptotes
1pt overall shape
3pts

b. $y = 1.5\sec(2x)$

x	y
0	1.5
$\pm\pi$	1.5
$\pm\frac{\pi}{2}$	−1.5
$\pm\frac{\pi}{4}$	undefined
$\pm\frac{3\pi}{4}$	undefined



7pts

1. Graph two periods of the following function. **Plot at least 3 points in each period and label them.**

2pts asymptotes
2pts overall shape
−1 if $y = \cot x$
$\pm\frac{\pi}{8} = -2.41$
3pts

$y = -\cot x$

x	y
$\pm\frac{\pi}{2}$	0
$\pm\pi$	undefined
$+\frac{\pi}{4}$	−1
$+\frac{3\pi}{4}$	1
$-\frac{\pi}{4}$	1
$-\frac{3\pi}{4}$	−1