Math 112 – Section _____ _____ = % NAME: _____
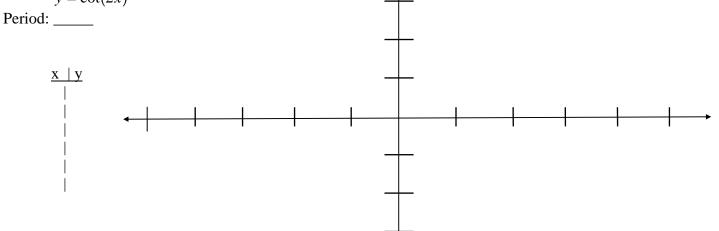
Quiz #4 b, version A Spring 2012   20

Sections 7.6-7.8   Seat location: _____

Label the axes with appropriate values. Asymptotes should be dashed lines.

7pts

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

$$y = \cot(2x)$$

Period: _____

x | y

13pts

2. For each of the following functions, **graph 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

a. $y = 1.5\sin\left(x + \dfrac{\pi}{4}\right)$

period: _____

amplitude: _____

phase shift: _____

x | y

b. $y = 1.5\csc\left(x + \dfrac{\pi}{4}\right)$

x | y