Math 112 – _____   _____   NAME: _____

Quiz #5, version A, Spring 2011   20

Sections 8.1-8.2   Seat location: _____
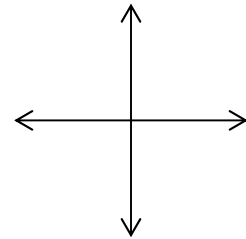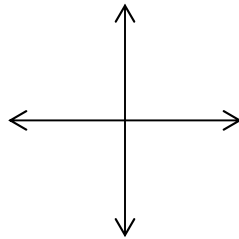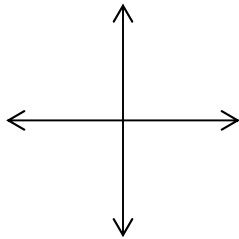
Full credit is based on work shown!

Note: Angles should be in radians for inverse trig functions.

9pts

1. Evaluate without a calculator giving **exact values**. Draw and label a sketch to illustrate each one.
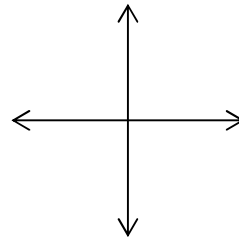   (Note: Your sketch should show the angle and a labeled triangle or a labeled point on the unit circle.)

   a. $\sin^{-1}\left(-\dfrac{\sqrt{3}}{2}\right) =$ _____

   b. $\cos^{-1}(-1) =$ _____

   c. $\cos\left[\tan^{-1}(-1)\right] =$ _____

5 pts

2. Evaluate without a calculator giving an exact value. Draw and label a right triangle to illustrate how to solve this problem.

   $\cot\left[\cos^{-1}\left(-\dfrac{5}{13}\right)\right] =$ _____

6 pts

3. Use a calculator to find the value of each expression. Round each answer to two decimal places.

   a. $\tan^{-1}\left(-\dfrac{1}{2}\right) =$

   b. $\sec^{-1}(4) =$