Math 112 – section _____   _____ =   %   NAME: _____
Quiz # 2, version A, Spring 2011   20
Sections 7.1-7.3   Seat location: _____
Full credit is based on work shown!   (letter & number)
4 pts

1. a. Convert $\dfrac{5\pi}{6}$ radians to degrees.   b. Convert 225° to radians in terms of π.
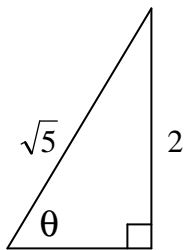
4 pts

2. a. Convert 18.255 ° to degrees, minutes and seconds.   b. Convert 50° 6' 21" to decimal degrees.

5 pts

3.a. Calculate the missing side of the Δ shown.   b. Find the **exact value** of each trigonometric
                                                          function of angle θ in the triangle shown.

$\sqrt{5}$ 2

θ

$\sin \theta =$

$\cos \theta =$

$\tan \theta =$

$\sec \theta =$

4 pts

4. Use your calculator to find the value (rounded to five decimal places) for each of the following:

a. $\cos \dfrac{\pi}{8} =$ b. $\cot 70° =$

3 pts

5.a. Label the sides with appropriate numbers for   b. Give the exact value of tan 30° .
     this right triangle that has angles of 30° and 60°.