Spring 2011   **Show all your work. Do NOT use a calculator on this quiz.**
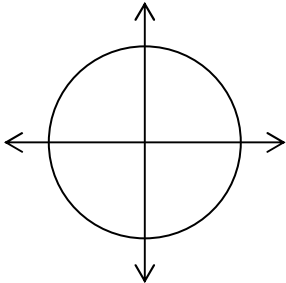
Math 112 – section____   _____   NAME: _____
Quiz # 3, version A   20
Sections 7.4 - 7.5   Seat: _____
4pts

1. Plot the following point $\left(-\dfrac{\sqrt{3}}{2}, \dfrac{1}{2}\right)$ on the unit circle that corresponds to angle θ,
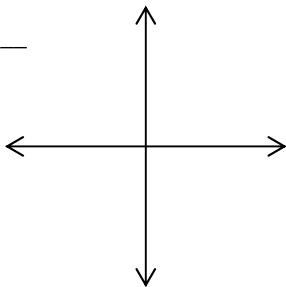
   then find cos θ and tan θ.

8pts
2. Give the **exact value for each of the following trig functions**.   Do NOT use a calculator.
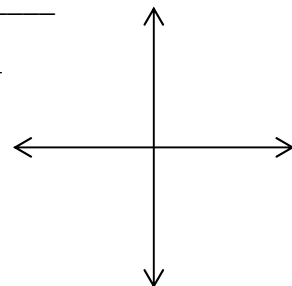 **Draw** and **label** the <u>appropriate angle</u> **and** <u>reference angle (give its measure)</u>.

   a.   **sec** 225°= _____

   reference ∠ = ____

   b. **cot** $\dfrac{5\pi}{3}$ = _____

   reference ∠ = ____

8pts

3. a. If tan θ = $\dfrac{4}{3}$ and cos θ < 0, angle θ is in what quadrant? _____

   b.   Draw a sketch to illustrate angle θ and its reference angle (and triangle), then find the
      remaining five trigonometric functions for θ.