

Spring 2012 **Show all your work. Do NOT use a calculator on this quiz.**

Math 112 – \_\_\_\_\_

NAME: \_\_\_\_\_

Quiz # 3, version A

20

Sections 7.3 - 7.5

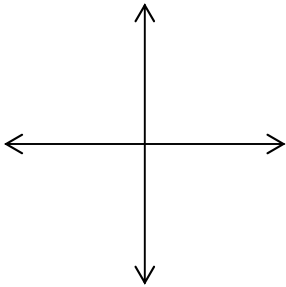
Seat location: \_\_\_\_\_

8pts

(letter & number, A-G & 1-5)

1. a. If  $\tan \theta = \frac{3}{4}$  and  $\cos \theta < 0$ , angle  $\theta$  is in what quadrant? \_\_\_\_\_

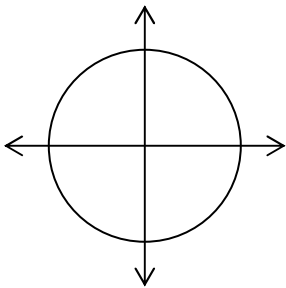
b. Draw a sketch to illustrate angle  $\theta$  and its reference angle (and triangle), then find the remaining five trigonometric functions for  $\theta$ .



4pts

2. Plot the following point  $\left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$  on the unit circle that corresponds to angle  $\theta$ ,

then find  $\csc \theta$  and  $\tan \theta$ .



8pts

3. Give the **exact value for each of the following trig functions.** Do NOT use a calculator.

**Draw and label** the appropriate angle and reference angle (give its measure).

a.  $\sec 315^\circ =$  \_\_\_\_\_

b.  $\cot \frac{4\pi}{3} =$  \_\_\_\_\_

reference  $\angle =$  \_\_\_\_\_

reference  $\angle =$  \_\_\_\_\_

