

Name: _____

Score: _____ /15

Worksheet 14 (Due Fri, May 23)

Math 1060Q – Summer 2014

Professor Hohn

Three questions will be chosen randomly to be graded. You must show all of your work to receive full credit!

1. Convert the following from degrees to radians.

(a) 240°

(b) 150°

(c) -260°

(d) 640°

(e) -190°

2. Convert the following from radians to degrees.

(a) $\frac{\pi}{3}$

(b) $\frac{3\pi}{2}$

(c) $\frac{2\pi}{7}$

(d) $\frac{\pi}{4}$

(e) $-\frac{7\pi}{6}$

(f) $\frac{9\pi}{4}$

3. Write the point on the unit circle that corresponds to the following angles.

(a) $\frac{\pi}{2}$

(b) $\frac{\pi}{3}$

(c) $\frac{5\pi}{3}$

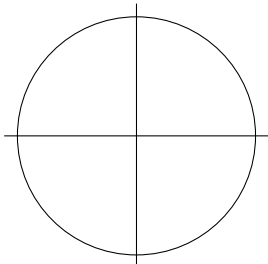
(d) $-\frac{2\pi}{3}$

(e) $\frac{9\pi}{4}$

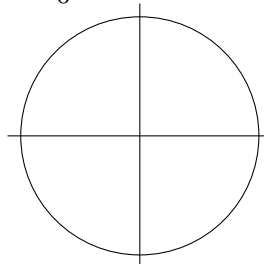
(f) $\frac{7\pi}{6}$

4. Plot the approximate location of the following angles on the unit circle.

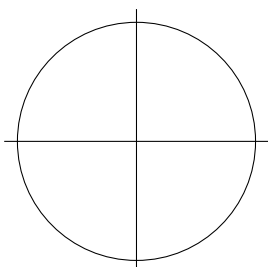
a) -405°



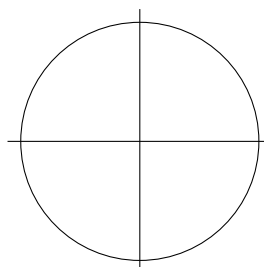
b) $\frac{7\pi}{6}$ radians



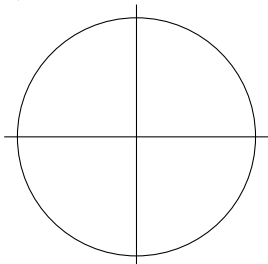
c) 53π radians



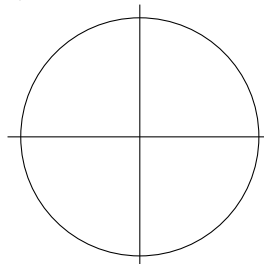
d) $\frac{-15\pi}{4}$ radians



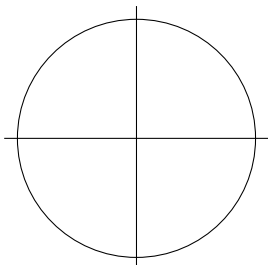
e) 15 radians



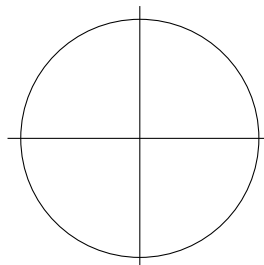
f) 160°



g) $\frac{-21\pi}{5}$ radians



h) 680°



5. Memorize all of the points and the corresponding angles of the unit circle below.

