

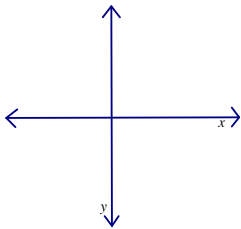
## Unit Circle Practice Test

A) The first part of this test will be filling out a blank unit circle...the **Degree** measures, the **Radian** measures and the **Coordinates** for each point on the circle. Moodle has a copy of a completed Unit Circle. Be sure you can re-create it.

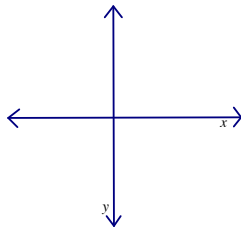
B) Check your answers to this test with the solution key on Moodle

**#1-3, Draw each in *standard position*.**

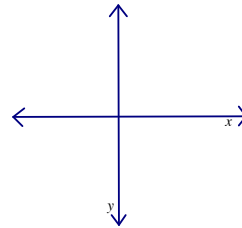
1.  $165^\circ$



2.  $-\frac{6\pi}{11}$



3. 4 radians

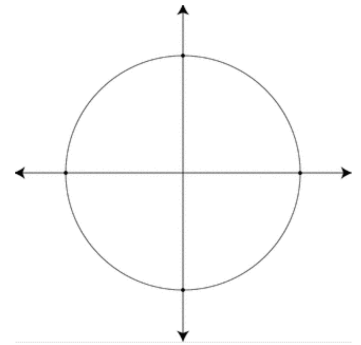


**#4-6, Find the *reference angle* for each.**

4.  $\frac{3\pi}{4}$

5.  $-100^\circ$

6.  $\frac{-10\pi}{3}$



**#7-8, Find a positive and a negative *coterminal angle*. (units remain the same)**

7.  $248^\circ$

8.  $\frac{8\pi}{7}$

**#9-10, *Convert* from measuring an angle in degrees to radians, or vice-versa.**

9.  $\frac{8\pi}{5}$

10.  $75^\circ$

**#11-13, Use your unit circle to answer each *Trigonometric* equation**

11.  $\sin 315^\circ =$

12.  $\cos \frac{11\pi}{4} =$

13.  $\tan \frac{4\pi}{3} =$

**14, Solve for the unknown. Answer in *radians*. (1 pt)**

$$\sin \theta = -\frac{\sqrt{3}}{2}$$