

Unit 6 – Unit Circle**1. Find the degrees and exact values for the following radians.**

	Degrees	Exact Values
a. $\frac{5\pi}{3}$	_____	_____
b. $-\frac{3\pi}{4}$	_____	_____
c. $\frac{\pi}{6}$	_____	_____
d. $-\frac{7\pi}{4}$	_____	_____

2. Find the radians and exact values for the following degrees.

	Radians	Exact Values
a. -150°	_____	_____
b. 135°	_____	_____
c. 60°	_____	_____
d. -360°	_____	_____

3. What quadrant are the following angles in?

a. -240°

b. $\frac{11\pi}{6}$

c. $(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$

Name _____ Hour _____

4. Find the coordinates of a point, rounded to the nearest hundredth, with an angle of rotation $\theta = 20^\circ$ and a radius of 1.

Without using a trigonometric function, what are the coordinates of the point after being reflected over the x -axis? After being reflected of the x - and y -axis at one time?

5. Find the coordinates of a point, rounded to the nearest hundredth, with an angle of rotation $\theta = 235^\circ$ and a radius of 4.

Without using a trigonometric function, what are the coordinates of the point after being reflected over the y -axis? After being reflected of the x - and y -axis at one time?