

Name: \_\_\_\_\_

## Trigonometric Functions: The Unit Circle

**Exercise 1:** Find the point  $(x, y)$  on the unit circle that corresponds to the real number  $t$

1)  $t = \frac{\pi}{4}$

2)  $t = \frac{\pi}{2}$

3)  $t = \frac{5\pi}{4}$

4)  $t = \frac{\pi}{3}$

5)  $t = \pi$

6)  $t = \frac{7\pi}{6}$

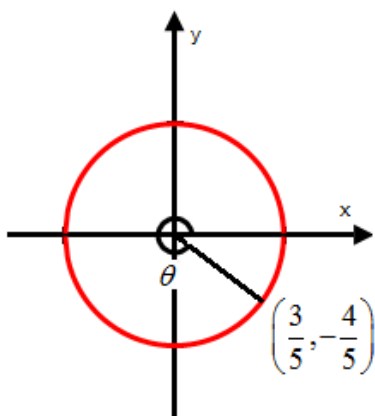
7)  $t = \frac{5\pi}{3}$

8)  $t = \frac{\pi}{5}$

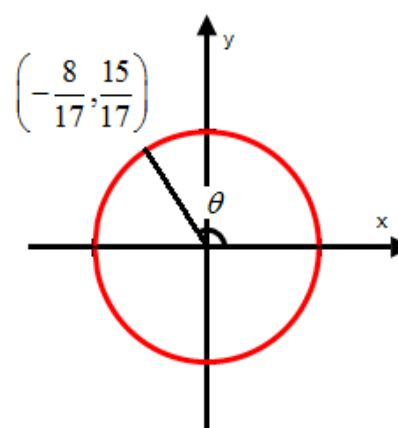
9)  $t = \frac{9\pi}{4}$

**Exercise 2:** Determine the exact values of the six trigonometric functions of the angle  $\theta$

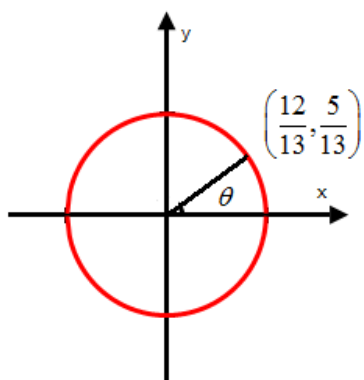
1)



2)



3)



4)

