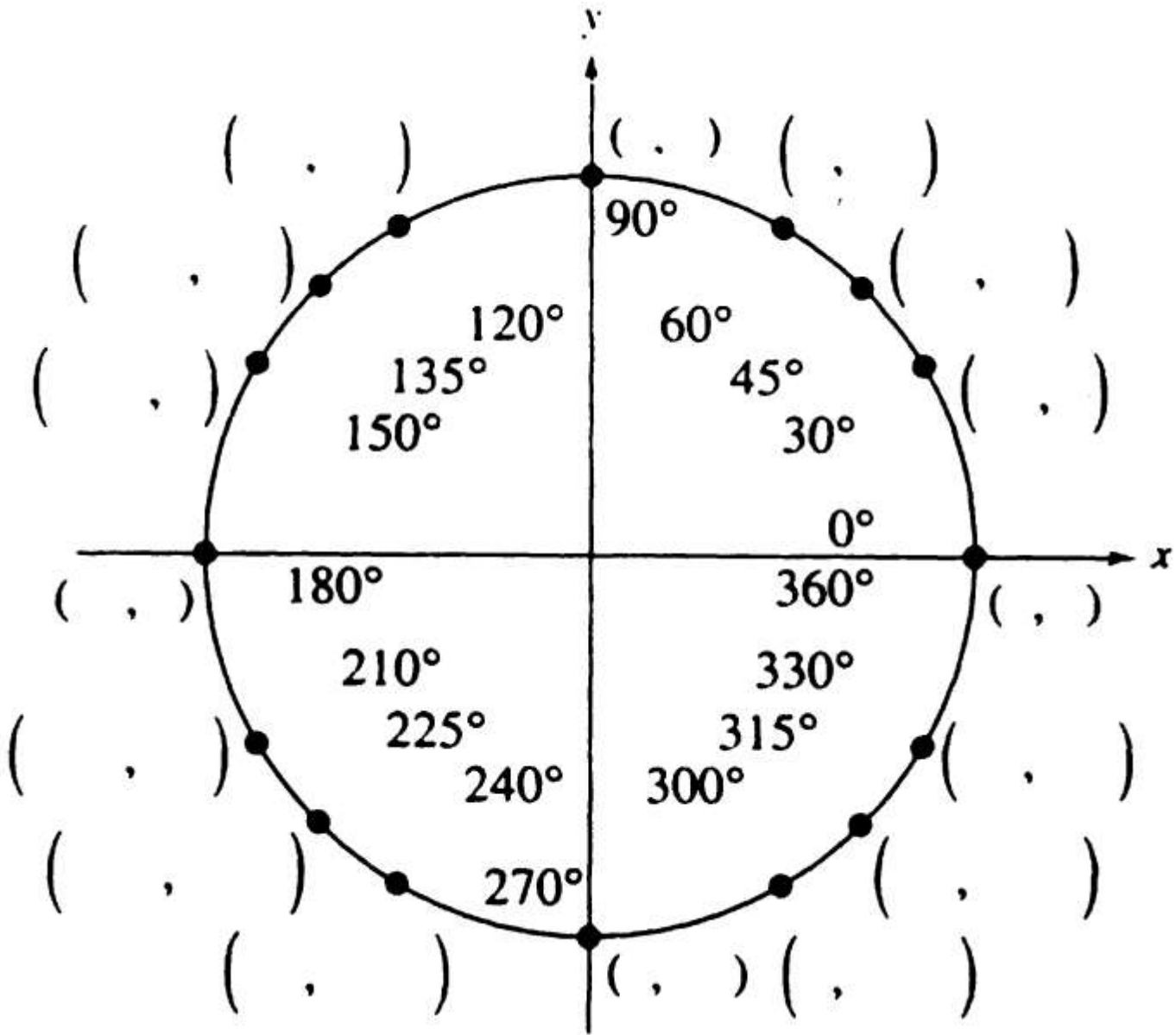


Name: _____

Mathematics 1613: Trigonometry Quiz #5

Problem 17: Complete the unit circle with the coordinates and radian measure of each angle:



Name: _____

Problem 18: Find the following trigonometric values. Justify your answers by showing your work.

$$\cos\left(-\frac{7\pi}{3}\right)$$

$$\sin\left(\frac{25\pi}{3}\right)$$

$$\csc\left(\frac{\pi}{2} + 7\pi\right)$$

$$\sec\left(\frac{7\pi}{6}\right)$$

$$\cot\left(-\frac{23\pi}{4}\right)$$

$$\csc(731\pi)$$

$$\cos\left(-\frac{3\pi}{4}\right)$$

$$\tan\left(-\frac{27\pi}{4}\right)$$

$$\csc\left(\frac{34\pi}{6}\right)$$

Problem 19: This exercise involves the properties of even and odd functions.

(1) What does it mean for a function f to be even? What does it mean for a function f to be odd?

(2) The graphs of even functions exhibit _____ symmetry. The graphs of odd functions exhibit _____ symmetry.

(3) Which trigonometric functions are even? Which are odd?

(4) Using the even/odd properties of cosine and sine, prove that secant is even.