Name: _____

Radian and Degree Measure

Exercise 1: Determine two co terminal angles (one positive, and one negative) for each angle. Give your answer in degrees.

1) 340^0

2) $-\dfrac{2\pi}{3}$

3) 64^0

4) $\dfrac{3\pi}{4}$

5) 290^0

6) 210^0

7) $\dfrac{11\pi}{6}$

8) $\dfrac{7\pi}{9}$

9) $-\dfrac{5\pi}{13}$

Exercise 2: Find the radian measure of the central angle of a circle of radius r that intercepts an arc of length s, if the radius r = 14 feet, arc length s = 8 feet.

Exercise 3: Find the length of the arc on a circle of radius r intercepted by a central angle θ radius r = 9 feet, θ = 60

Exercise 4: A section of side walk is a circular sector of radius 1.25 m and central angle 50.6°. What is the area of this section of sidewalk?

Exercise 5: A cam is in the shape of a circular sector with radius 1.875 cm and central angle 165.58°. What is the perimeter of the cam?