Pre-Calculus B
Chapter 6 Content Quiz 1 Practice
Non-Calculator Name _____

Sketch the angle in standard position.

1. 950°

2. $\frac{-23\pi}{5}$

Convert the angle in degrees to radians. Express your answer as a multiple of π.

3. 300°

Convert the angle in radians to degrees.

4. $\frac{9\pi}{10}$

For #5-7, find the missing quantity of the following arc length problems in which s denotes the length of the arc of a circle of radius r subtended by the central angle θ. Use the formula $s = r\theta$

5. r = 6 meters, $\theta = \frac{2}{3}$ radian, s = ?

6. $\theta = \frac{1}{6}$ radian, s = 3 feet, r = ?

7. r = 2 miles, s = 5 miles, θ = ?

For #8-10, find the missing quantity for the following sector problems in which A denotes the area of the sector of a circle of radius r formed by the central angle θ. Use the formula $A = \frac{1}{2} r^2 \theta$

8. r = 18 inches, $\theta = \frac{1}{3}$ radian, A = ?

9. $\theta = \frac{1}{5}$ radian, A = 8 square feet, r = ?

10. r = 6 miles, A = 16 square miles, θ = ?