Pre-Calculus w/Trig Peto Name _____
Trigonometry Unit 1 Review Test – CALCULATOR Date _____ Period _____

1. Convert each degree measure into radians and each radian measure into degrees.

a. 75° b. $-\frac{5\pi}{8}$ c. 600° d. $\frac{8\pi}{3}$

2. Given the measurement of a central angle and a radius, determine the length of the arc intercepted by the given angle. Round answers to the nearest hundredth.

$x = \frac{2\pi}{3}$ and $r = 12\,\text{in}$

3. Given the measurement of a central angle and a diameter, determine the area of the sector formed by the given angle. Round answers to the nearest hundredth.

$\theta = 85^\circ$ and $d = 11\,\text{in}$

4. For each of the following, draw a diagram and show the approximate location for **ALL** angles that meet the criterion. Round answers to the nearest hundredth.

a. $\cos\theta = -0.8391$ b. $\sin\theta = .4932$

c. $\cos\theta = .4132$ d. $\tan\theta = -.325$

e. $\sec\theta = -5$ f. $\csc\theta = 2.5$