

Name: _____

Radian and Degree Measure

Exercise 1: Fill the table by converting the angles to the measurement.

Number	Angle in radians	Angle in degrees
1)	$\frac{\pi}{11}$	
2)		15°
3)	$\frac{2\pi}{7}$	
4)		75°
5)		110°
6)	$\frac{3\pi}{10}$	
7)		220°

Exercise 2: Convert from degrees, minutes, and seconds to decimal degrees or vice versa. (3 decimal places)

Number	Degrees, Minutes, Seconds	Decimal Degrees
1)	$29^\circ 11' 51''$	
2)		102.34°
3)	$76^\circ 39' 21''$	
4)		112.45°

Exercise 3: If the arc length is 6 inches and the radius is 2 inches, find the central angle in degrees

Exercise 4: A circle has a radius of 4 inches. Find the length of the arc intercepted by a central angle of 240° .

Exercise 5: If the arc length is 2 meters and the central angle is 125° , find the radius of the circle