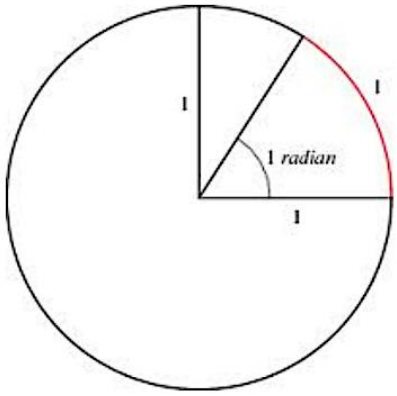
Precalculus | Name:
Notes 3.4 | Date: | Block:

3.4 Radian Measure



- Angles can also be measured in _____.
- One radian is the measure of an angle in _____ whose terminal side intercepts an _____ of length _____.
- Since the circumference of a circle is _____, there are _____ radians in a full circle of radius 1.

$360° = _____ radians$	$180° = _____ radians$

Converting between Degrees and Radians

Degrees to Radians	Radians to Degrees

Sketch the angle in standard position. Then convert the following degrees into radians.

a) $300°$ b) $145°$ c) $-970°$

Sketch the angles in standard position. Then convert the following radians into degrees.

a) $\frac{\pi}{6}$ b) 3π c) $-\frac{3\pi}{4}$

Sketch each given angle in standard position. Then find 3 angles that are coterminal (one must be negative) and the reference angle.

a) $\frac{11\pi}{6}$ b) $\frac{4\pi}{9}$ c) $-\frac{3\pi}{4}$