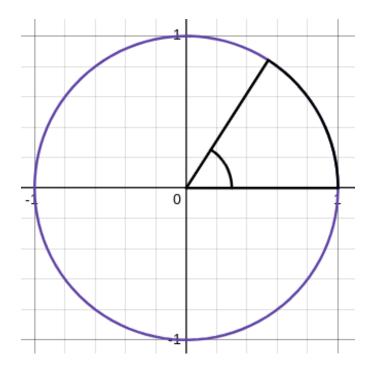
Precalculus 1.3 Key Points

Radians:

Radians, like degrees, are a way to measure angles.

1 radian is the angle created by an arc with a length equal to the radius of a circle and is approximately equal to 57. 296 degrees.



There are exactly 360 degrees or 2π radians in a circle ($\pi \approx 3.14159$). Thus, $\pi \, rad = 180^\circ$

To convert degrees to radians, multiply by $\frac{\pi}{180}$

$$90^{\circ} \bullet \frac{\pi}{180} = \frac{\pi}{2} rad$$

To convert radians to degrees, multiply by $\frac{180}{\pi}$

$$\frac{\pi}{3}$$
rad • $\frac{180}{\pi}$ = 60°

Note that angle measurements can also be negative. $\frac{3}{2}\pi\,rad$ is the same angle as $-\frac{1}{2}\pi\,rad$

Precalculus 1.3 Key Points

Unit Circle:

A unit circle is a circle with a radius of 1. Below is a filled out unit circle, typically labeled with a few key angles(in degrees/radians) and points:

