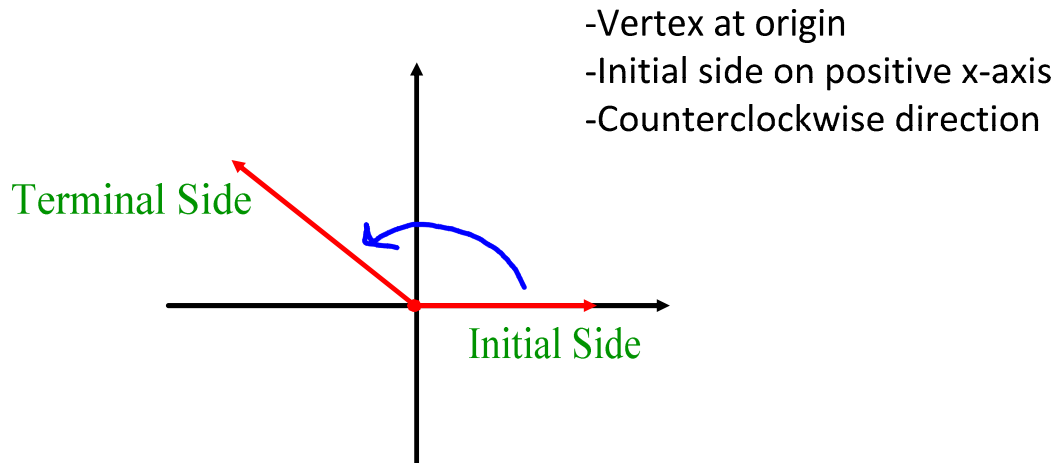


Basic Angle Vocab

Angles in Standard Position



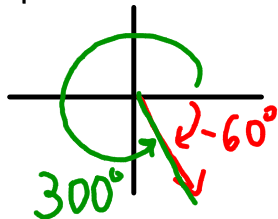
Quadrantal Angles - Terminal side is on an axis

Degrees: 0° , 90° , 180° , 270° , 360°

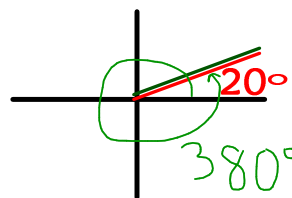
Radians: 0 $\frac{\pi}{2}$ π $\frac{3\pi}{2}$ 2π

Coterminal Angles - Terminal sides coincide

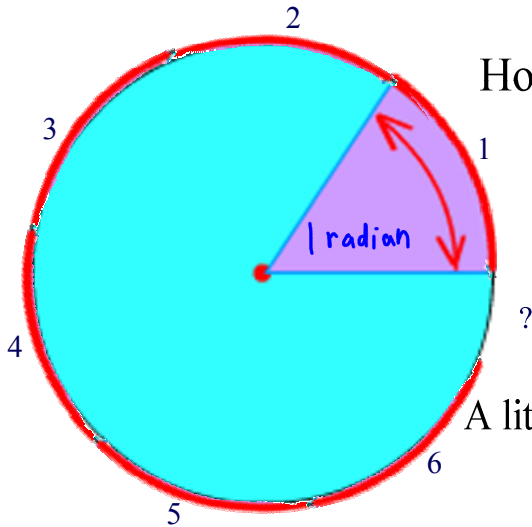
Example: -60° and 300°



20° and 380°



Radians & Degrees



How many radians are in the circumference ?

$$C = 2\pi r$$

$$\frac{C}{r} = 2\pi$$

There are 2π radians (r's) in the circumference.

A little more than 6.

$$2(3.14) = 6.28$$

$$\pi \text{ radians} = 180^\circ$$

To convert from degrees to radians:

multiply by $\frac{\pi}{180}$
(π should be in answer)

$$50^\circ \cdot \frac{\pi}{180} = \frac{50\pi}{180} = \frac{5\pi}{18}$$

To convert from radians to degrees:

multiply by $\frac{180}{\pi}$
(you're getting rid of π)

$$\frac{5\pi}{6} \cdot \frac{180}{\pi} = 150^\circ$$