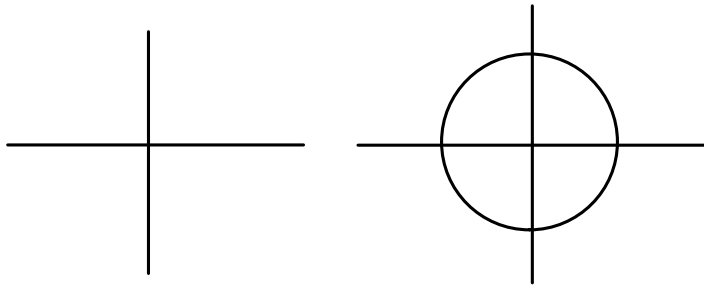


All About ANGLES

Standard Position: the vertex is at the origin and the initial side lies on the positive side of the x-axis



Initial & Terminal Sides:

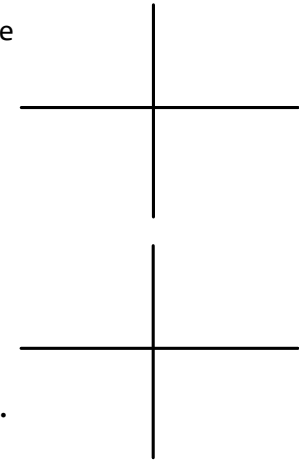
the *initial* is the starting side and the *terminal* is the ending side of an angle.

Positive Angle:

an angle is *positive* when it rotates in a **counter-clockwise** direction.

Negative Angle:

an angle that rotates in a **clockwise** direction is *negative*.



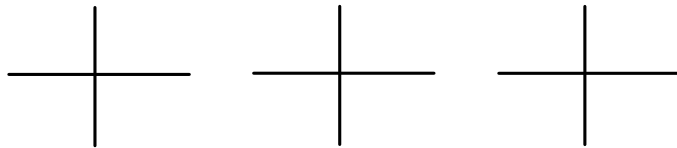
Examples:

1. Sketch the angles in standard position.

a) 159°

b) -29°

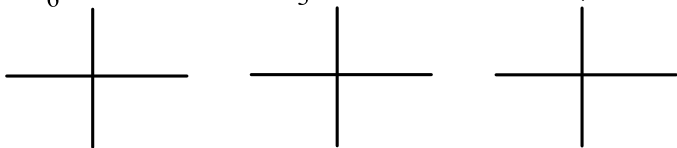
c) 390°



d) $\frac{11\pi}{6}$

e) $\frac{10\pi}{3}$

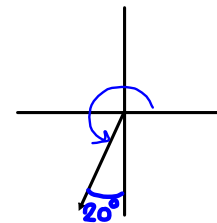
f) $-\frac{15\pi}{4}$



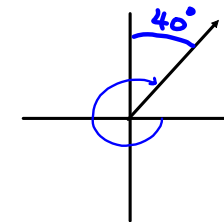
Examples:

2. Find the measure of each angle.

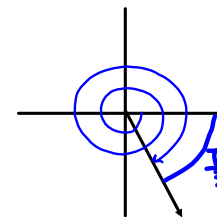
a)



b)



c)



d)

