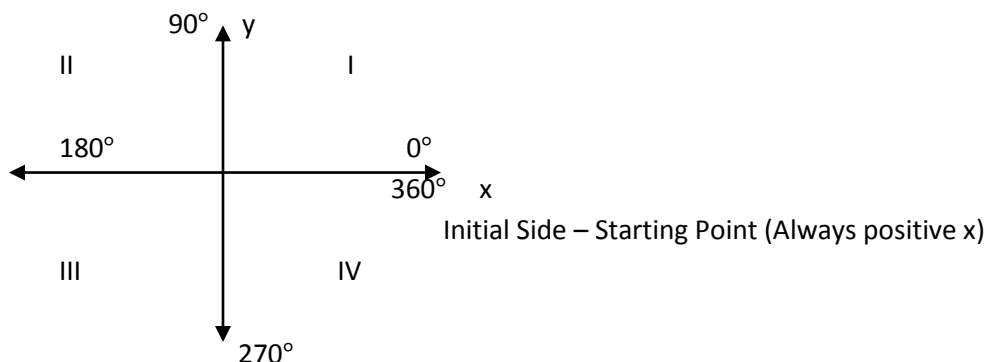# Index Card #15 (Back & Front)

Intro To Trig

Standard Position: Angle Starts at the Positive X-Axis (Initial Side)
Goes Until the Terminal Side (Where it Ends)
Positive Angle: Goes Counter Clockwise
Negative Angle: Goes Clockwise

90° y

II   I

180°   0°
              360°   x

Initial Side – Starting Point (Always positive x)

III   IV

270°

Quadrantal Angles – the initial and terminal sides are on the axes

Coterminal Angles: Angle Has the Same Initial and Terminal Side
Positive (May have to go around an additional 360°)
Negative (Completes the Circle – Subtracts from 360°)

Radian Measure: $\dfrac{Radian}{Degree} = \dfrac{\pi}{180}$ **Radians Should be Kept in Terms of π**

Length of an Arc: $S = r\theta$
  S = Length of Arc
  R = Radius
  $\theta = Central\ Angle\ (IN\ RADIANS)$