10.2 Circles: Arc Measures

The measure of a minor arc is the measure of its central angle.

The measure of the entire circle is 360 degrees. The measure of a major arc is the difference between 360 degrees and the measure of the related minor arc.

The measure of a semicircle is 180 degrees.

Two circles are congruent circles if they have the same radius.

Angle in standard position: Angles with the initial side on the positive x-axis. Positive degree = counterclockwise / Negative degree = clockwise.

Coterminal Angles: Angles in standard position that have a common terminal side.

Example: 30, -330, 390

To find a positive and a negative coterminal angle, you can add and subtract 360 degrees if the angle is measured in degrees (or 2 pi if the angle is measured in radians).

Reference Angle: The acute angle formed by the terminal side of the given angle and the x-axis (always a positive value)