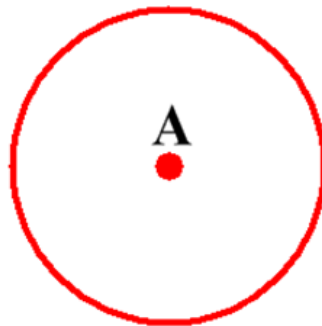


Def. Central Angle

An \angle whose vertex is the center of a circle.

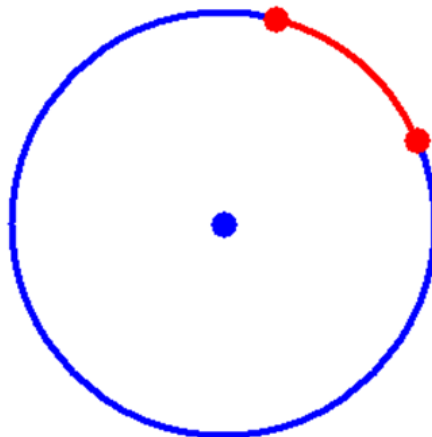


Sum of the central \angle 's

The sum of the measures of the central \angle 's of any circle with no common interior pts. is 360° .

Def. Arc

A part of a circle.



Def. of Arc Measure

The measure of an arc is the measure of its central \angle .

Minor Arc - An arc whose measure is **less** than 180°

Major Arc - An arc whose measure is **greater** than 180°

Semicircle - An arc whose measure is **equal to** 180°

Def. of \cong circles

2 circles are \cong if their radii are \cong .

Def. \cong arcs

Arcs in the same circle or \cong circles that have the same measure.

Th. 10.1

In the same circle or in \cong circles, 2 arcs are \cong iff their corresponding central angles are \cong .

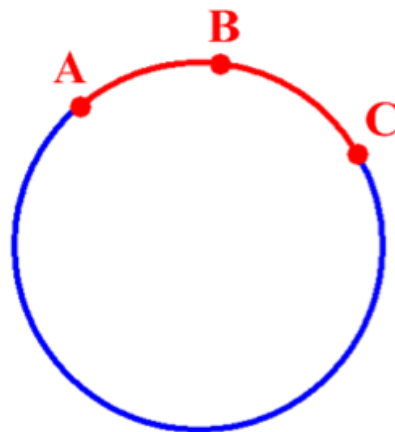
Post. 10.1 Arc Addition Postulate

The measure of an arc formed by 2 adj. arcs is the sum of the measures of the 2 arcs.

$$m\widehat{AB} = 21^\circ$$

$$m\widehat{BC} = 28^\circ$$

$$m\widehat{AC} =$$



Arc Length

The length of an arc can be found by:

$$l = \frac{m}{360} (2\pi r)$$

Where l is the **length** of the arc,
 m is the measure of the arc,
and r is the **radius** of the circle.