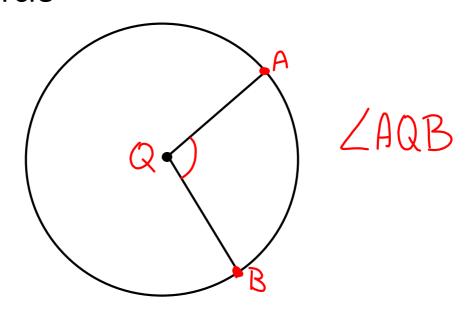
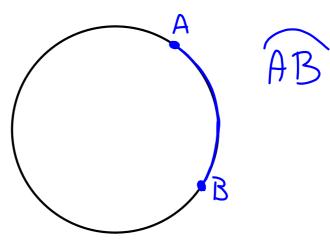
## **CENTRAL ANGLE**

An angle whose vertex is at the center of a circle



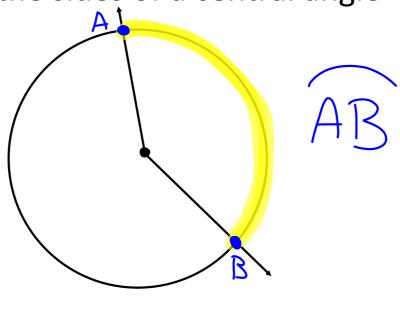
#### **ARC**

The part of a circle consisting of 2 points on the circle, and all other points needed to connect them by a single path



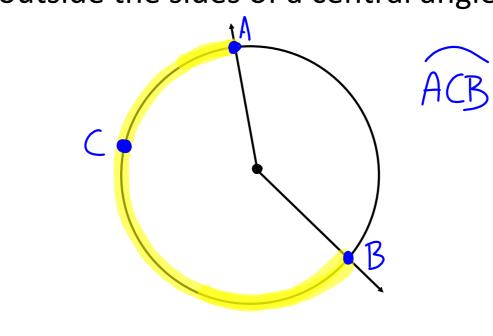
## **MINOR ARC**

An arc whose endpoints are on or inside the sides of a central angle



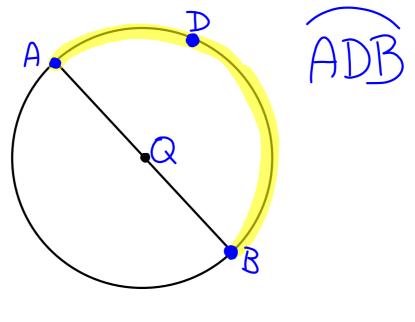
## **MAJOR ARC**

An arc whose endpoints are on or outside the sides of a central angle



## **SEMICIRCLE**

An arc whose endpoints are the endpoints of a diameter



# **MEASURE OF AN ARC**

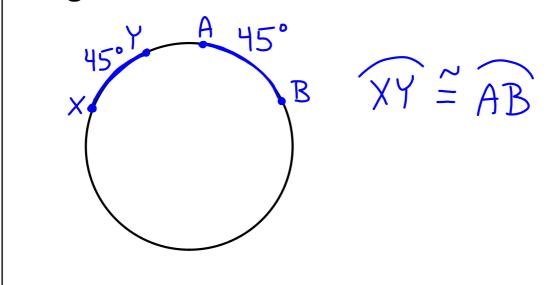
minor arc = the measure of its central angle

major arc = 360 minus the measure of its related minor arc

semicircle =  $180^{\circ}$ 

#### **CONGRUENT ARCS**

Two arcs that have the same measure and are parts of the same circle or congruent circles.



# **Arc Addition Postulate**

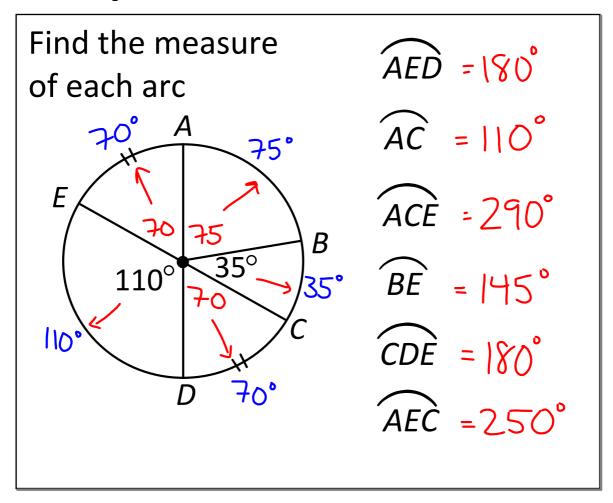
The measure of an arc formed by two adjacent arcs is equal to the sum of the measures of the two arcs.

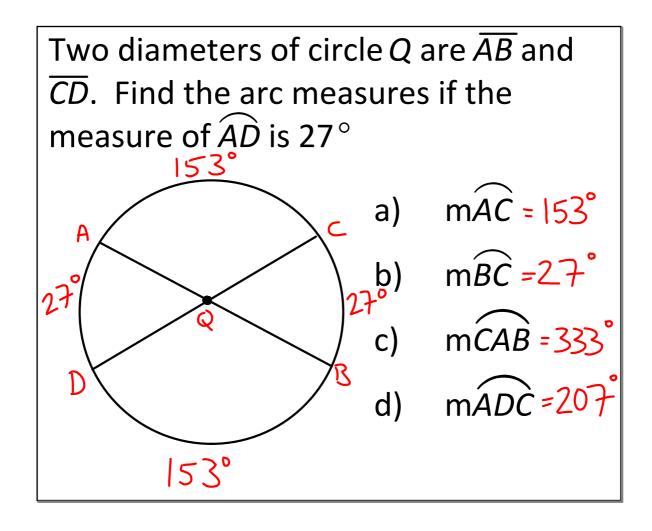
$$AD^{\circ} \quad \text{mac}$$

$$B = \text{mAB+mBC}$$

$$72^{\circ} = 40+72$$

$$= 112^{\circ}$$





Lesson 3 - Central Angles and Arc Measures Marked

