DO NOW

Name each part of the circle

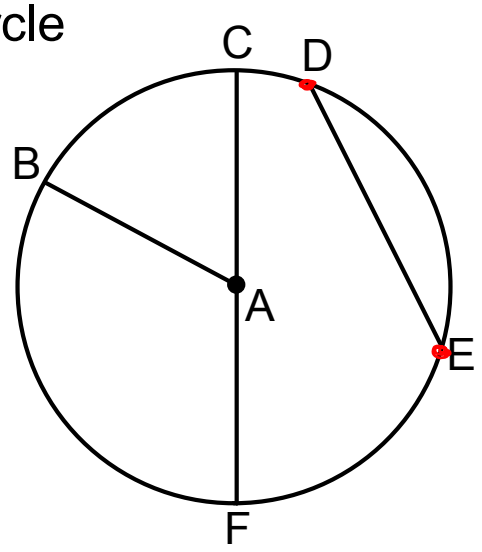
a) center Point A

b) radius $\overline{BA}$, $\overline{CA}$, $\overline{FA}$

c) diameter $\overline{CF}$

d) chord $\overline{DE}$

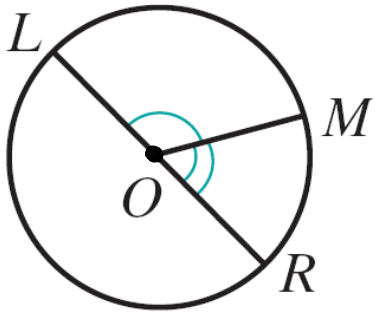
★ $\overline{CF}$ ★



Apr 24-10:24 AM

Central Angle

Angle whose vertex is the center of the circle



EX: ∠LOM

∠MOR

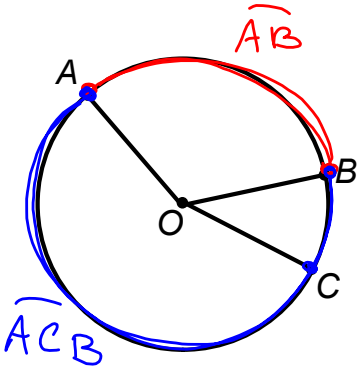
∠LOR = 180°

Mar 14-11:33 AM

Arc of a Circle

Part of a circle, between two points on the circle

Minor arcs measure less than 180°
Major arcs measure more than 180°



shortest route from A to B

EX: minor arc $\overset{\frown}{AB}$

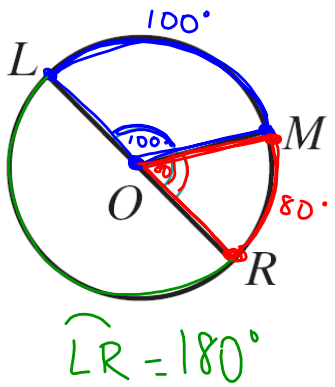
major arc $\overset{\frown}{ACB}$

Mar 14-11:42 AM

Arcs of a Circle

The sum of the measures of the arcs of a circle equal 360°

The degree measure of an arc is equal to the measure of the central angle that intercepts the arc



$$m\overset{\frown}{LM} = m\angle LOM$$

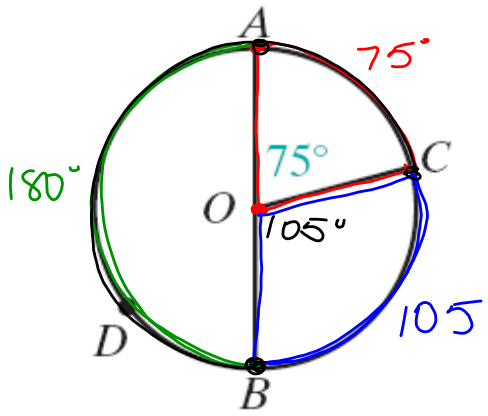
$$m\overset{\frown}{MR} = m\angle MOR$$

Mar 14-11:59 AM

Let $\overrightarrow{OA}$ and $\overrightarrow{OB}$ be opposite rays and $m\angle AOC = 75$. Find:

a. $m\angle BOC$ **b.** $m\overset{\frown}{AC}$ **c.** $m\overset{\frown}{BC}$ **d.** $m\overset{\frown}{AB}$ **e.** $m\overset{\frown}{BAC}$

105° 75° 105° 180° 255°



Mar 14-12:04 PM

In circle O, $\overline{AC}$ is a diameter. Find each measure:

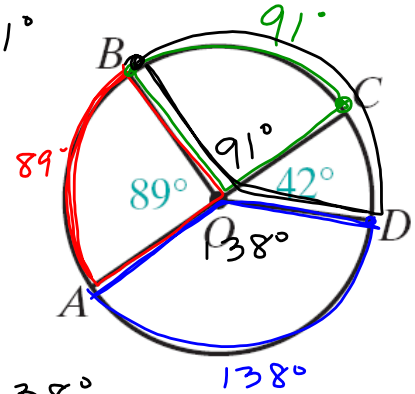
$m\angle BOC = 91°$

$m\overset{\frown}{AB} = 89°$

$m\overset{\frown}{BC} = 91°$

$m\angle DOA = 138°$

$m\overset{\frown}{DA} = 138°$



$m\angle BOD = 133°$

$m\overset{\frown}{BCD} = 133°$

$m\overset{\frown}{DAB} = 227°$

$m\angle AOC = 180°$

$m\overset{\frown}{ADC} = 180°$

Mar 15-9:55 AM