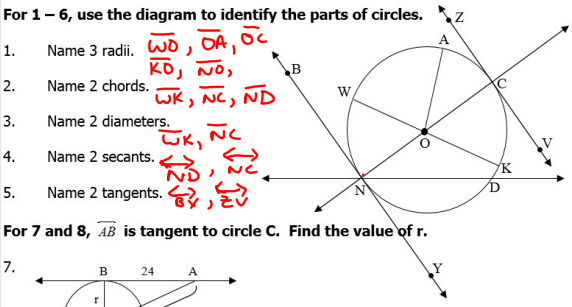
WU

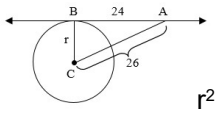
For 1 – 6, use the diagram to identify the parts of circles.

1. Name 3 radii. $\overline{WO}$, $\overline{OA}$, $\overline{OC}$, $\overline{KO}$, $\overline{NO}$,
2. Name 2 chords. $\overline{WK}$, $\overline{NC}$, $\overline{ND}$
3. Name 2 diameters.
4. Name 2 secants. $\overline{WK}$, $\overline{NC}$, $\overline{ND}$, $\overline{NC}$
5. Name 2 tangents. $\overleftrightarrow{BX}$, $\overleftrightarrow{EV}$



For 7 and 8, $\overline{AB}$ is tangent to circle C. Find the value of r.

7.

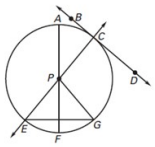


$r^2 + 24^2 = 26^2$

Apr 21-11:10 AM

Determine what term best describes the given line, segment, or point. (secant, tangent, chord, diameter, point of tangency, radius, center)

1. C _____
2. P _____
3. $\overline{EG}$ _____
4. $\overline{EC}$ _____
5. $\overline{BD}$ _____
6. $\overline{AF}$ _____
7. $\overline{PG}$ _____



Apr 8-7:49 PM

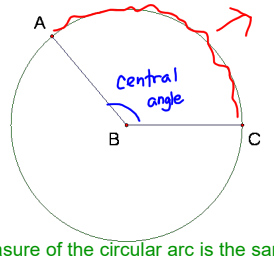
You are standing 6 feet from a circular fountain. The distance from the point of tangency is 12 feet. Find the radius of the fountain

Mar 31-1:55 PM

10.2 Arcs and Central Angles

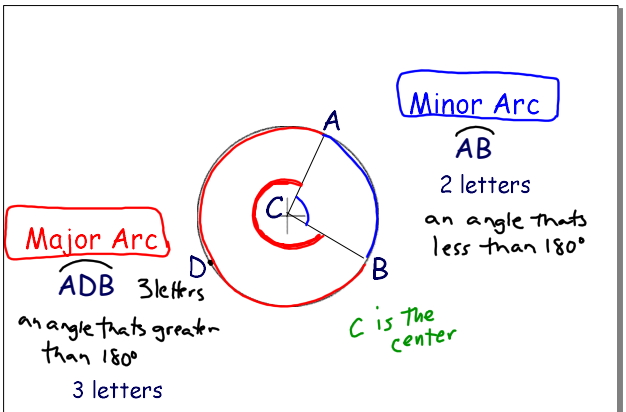
A central angle is an angle who's vertex is at the center of a circle.

A circular arc is a part of the circle.



The measure of the circular arc is the same as the central angle

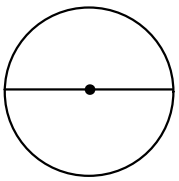
Mar 5-9:39 PM



Mar 6-10:31 AM

Semicircle

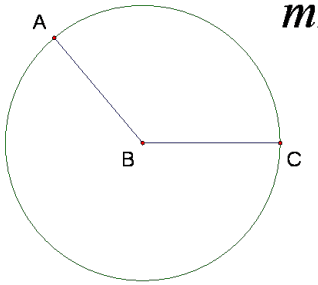
Half the circle



Arc measures 180°

Mar 31-2:00 PM

Ex 1 Find the measure of arc ABC



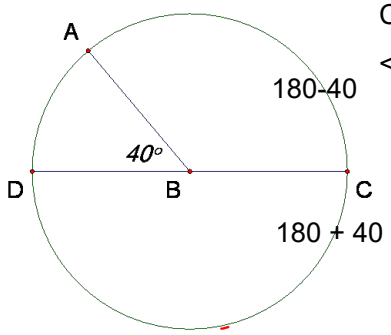
$m\angle ABC = 120°$

$\overset{\frown}{AC}$ is the arc

$m\overset{\frown}{AC} = 120^0$

Mar 6-10:27 AM

Ex 2 Find the measure of the central angle ABC and the arc $\overset{\frown}{ADC}$



Central angle

<ABC = 140°

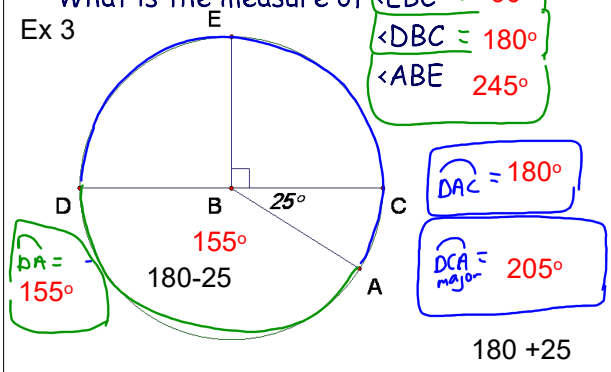
180-40

180 + 40

Arc $\overset{\frown}{ADC}$ = 220°

Mar 6-10:28 AM

Ex 3 What is the measure of



<EBC = 90°

<DBC = 180°

<ABE 245°

$\overset{\frown}{DA}$ = 155°

155°

180-25

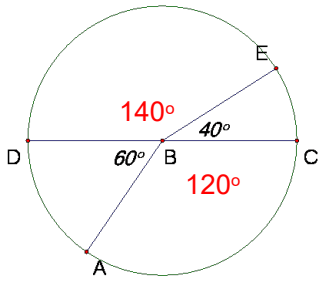
$\overset{\frown}{DAC}$ = 180°

$\overset{\frown}{DCA}$ major = 205°

180 +25

Mar 6-10:28 AM

Ex 4 What is the measure of...



∠EBA = 160°

$\overset{\frown}{COE}$ = 360-40 320°

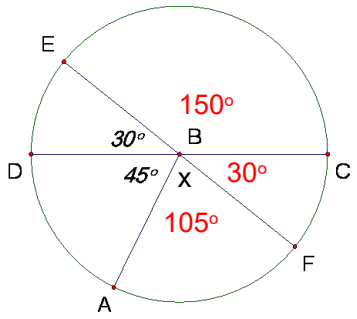
$\overset{\frown}{EC}$ = 40°

∠DBE = 140°

<DBE. 140°

Mar 6-10:28 AM

Ex 5 What is the measure of...



45+x+30 =180

x=105

Mar 6-10:29 AM

Hw Pg 542, #3-17

Naming the arc 3 letters for major

2 letters for minor

Finding measurements..

remember semicircle is 180

whole circle is 360

Mar 31-2:11 PM