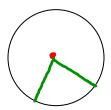
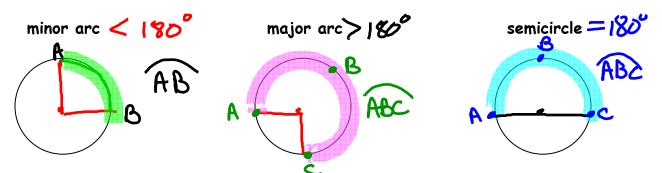
Notes for Lesson 9-3: Arcs and Central Angles

Draw a diagram to go with each of the following definitions below:

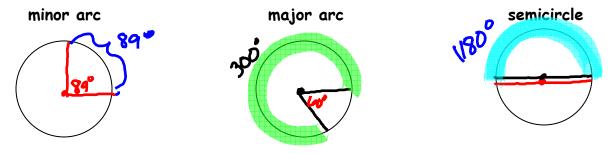
1) Central angle - An angle with its vertex at the center of a circle



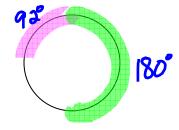
2) Arc - an unbroken part of the circle



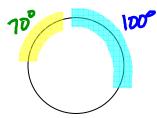
3) Measure of an arc - The measure of a minor arc is the measure of its central angle and is $< 180^\circ$. The measure of a major arc is 360 - (measure of the minor arc) and is $> 180^\circ$ but $< 360^\circ$. The measure of a semi circle = 180° .



4) Adjacent arcs - arcs with exactly one point in common



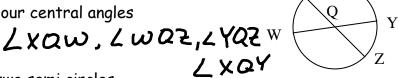
5) Arc addition postulate - the measure of the arcs formed by two adjacent arcs is the sum of the measures of these two arcs.



6) Congruent arcs - arcs in the same circle or congruent circles that have equal measures (or the same measure for their central angles).

Name the following:

1) four central angles



2) two semi circles



3) four minor arcs

4) four major arcs

Find the measure of each arc or angle named.



