Warm-Up

Open book assignment.

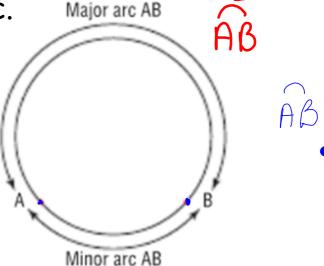
Remember name all angles with 3 Letters



Section 8.3 Angle Properties in a Circle

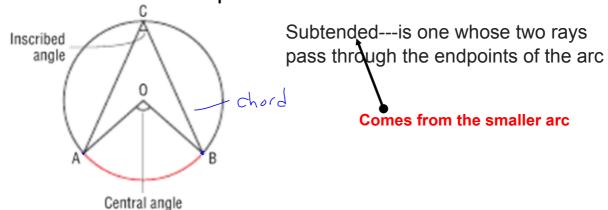
Terms/Properties to know:

Arc- a section of the circumference of a circle is an arc. Major arc AB



of an arc to the center of the circle
[Two radii form the central angle]

³Inscribed Angle -- The angle formed by joining the endpoints of an arc to a point on the circle



[coming from]

The inscribed and central angles are subtended by arc AB

Name central angle < POB

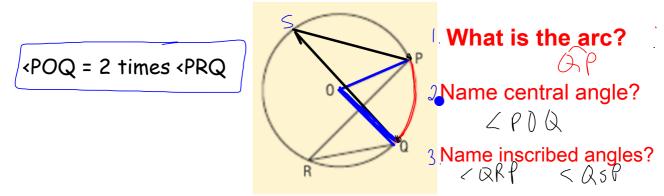
Name inscribed angle ∠ A € 💆

Angle Properties of a Circle

1. Central Angle and Inscribed Angle Property

[coming from]

In a circle, the measure of a central angle subtended by an arc is twice the measure of the inscribed angle subtended by the same arc.



THIS IS TRUE FOR ANY INSCRIBED ANGLE

[The inscribed angle is half the size of theentral angle]

2. Inscribed Angles Property

In a circle, all of the inscribed angles subtended by the 250

same arc are congruent [equal]

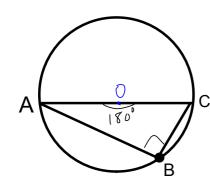
ZPDQ

3. ANGLES IN A SEMI-CIRCLE PROPERTY

*The two arcs formed by the endpoints of a diameter are semicircles.

*The central angle is a straight angle which is 180°

*The inscribed angle subtended by semicircle is one-half 180°



- 1) Name the straight angle $\langle \rho \rangle$
- $_{\rm C}$ 2) Identify the arc for the straight angle. $\bigcap_{i=1}^{n} \bigcap_{j=1}^{n} \bigcap_{i=1}^{n} \bigcap_{j=1}^{n} \bigcap_{j=1}^{n} \bigcap_{j=1}^{n} \bigcap_{i=1}^{n} \bigcap_{j=1}^{n} \bigcap_{j=1}^{n}$



3) Name the angle **subtended** by the arc.