

Lesson 10.2 Arcs Measures & Length

Objectives:

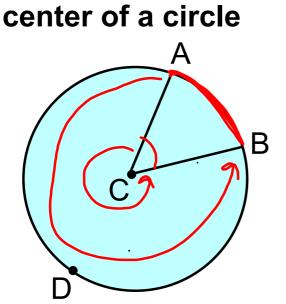
- Understand the difference between arcs and angles
- Understand that if an angle is measured in degrees, then the arc will be measured in degrees.
- Be able to find arc lengths
- Be able to define and identify the types of arcs and a central angle

Prior Knowledge:

 degrees in a circle, basic algebra, pythagorean theorem

G.CO.1 - know precise definitions of angle, circle and distance around a circular arc

Central Angle - angle whose vertex is the center of a circle A = M AB = M AB



measure of central = measure of its intercepted arc.

Measures and Naming of Arcs

arc - part of a circle

Named by points:

1. minor arc named by points and has a

measure <180°

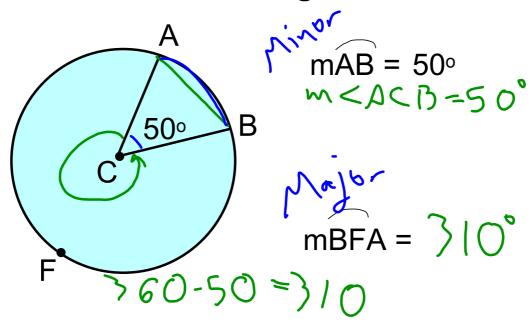
2. major arc named by

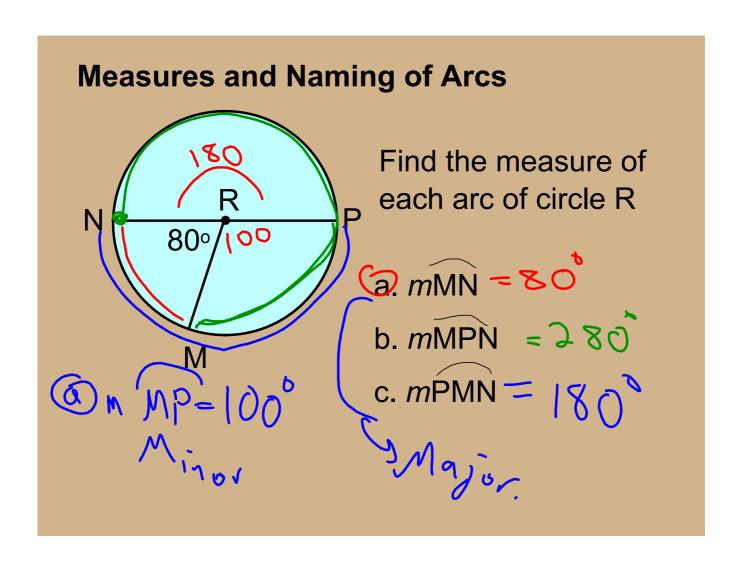
 $\frac{1}{2}$ points and has a

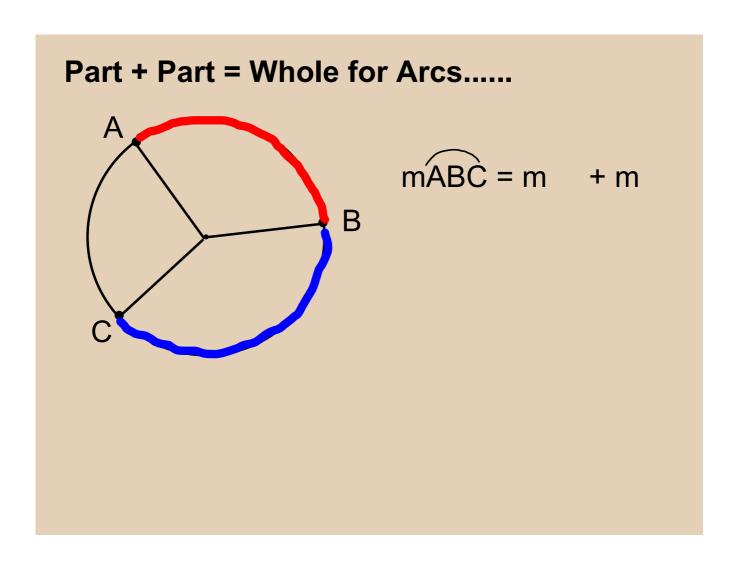
measure > 180°

3. **semicircle** is an arc with endpoints of a diameter.

Measures and Naming of Arcs



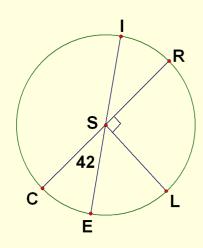


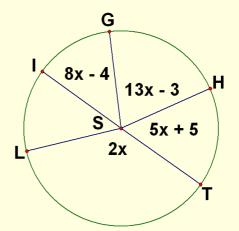


Circles

Angles and Arcs

Central Angles:





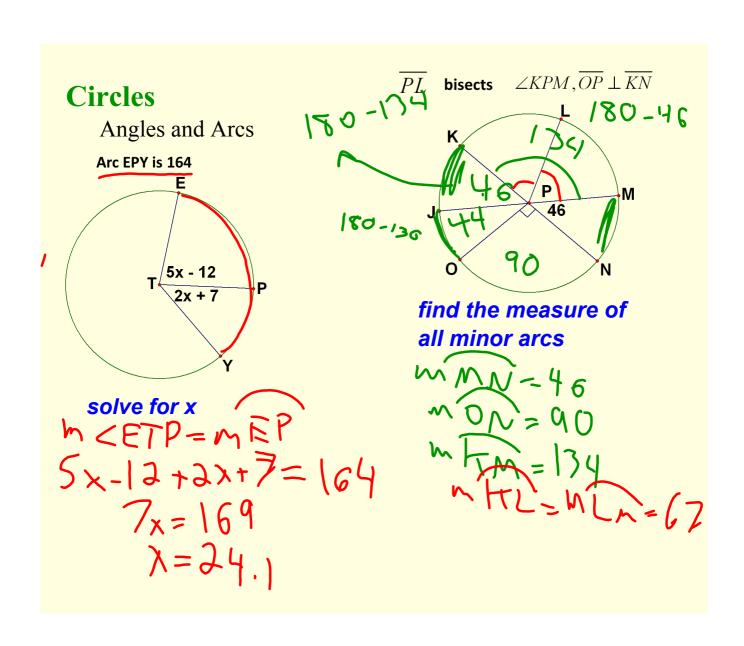
mIR =

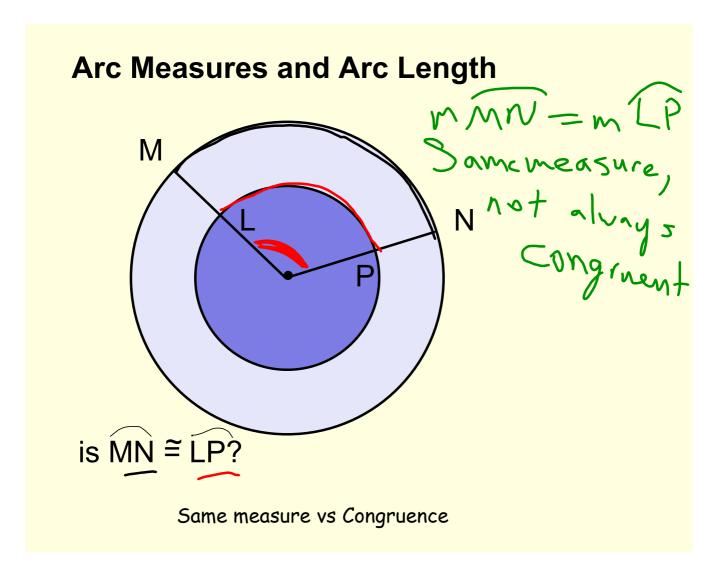
solve for x

mÎRL =

mIRE =

find mIL





Lesson 10.2 practice_c.pdf

Lesson 11.2 practice_c.pdf