

Terminology

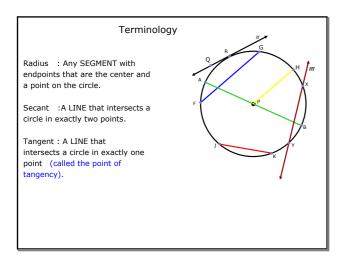
Circle: The locus or set of all points in a plane equidistant from a given point called the center of the circle.

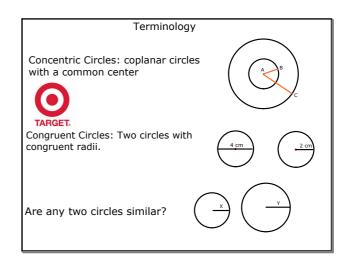
*A circle is named by its center point. ex.

Chord: Any segment with endpoints that are on the circle. Ex.

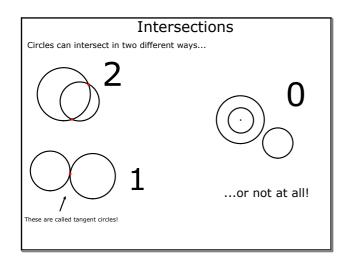
Diameter: A CHORD that passes through the center. Ex.

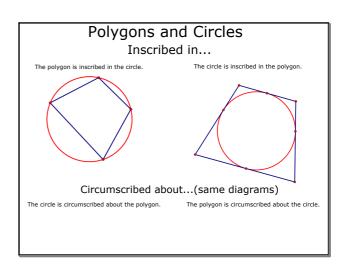
Mar 16-9:38 AM Mar 16-9:45 AM





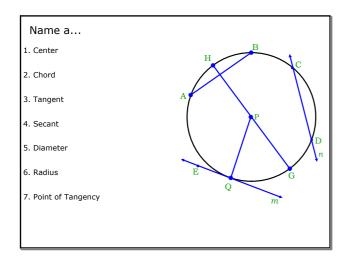
Mar 16-9:45 AM Dec 18-3:09 PM

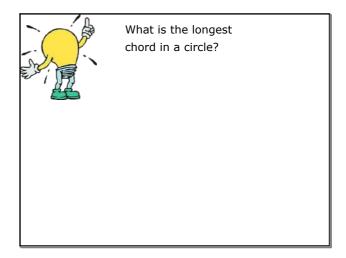




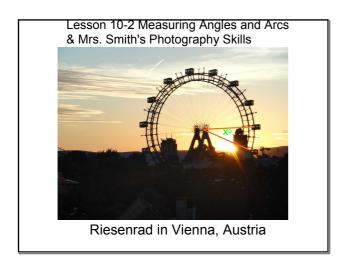
Dec 18-3:15 PM Jan 1-11:54 AM

1





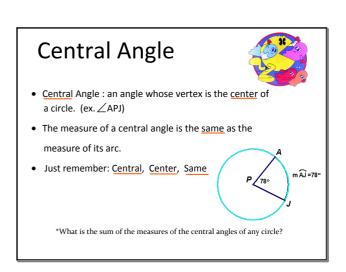
Mar 16-9:55 AM Feb 26-5:12 PM





Jan 1-12:28 PM Dec 12-5:14 PM





Dec 12-5:22 PM Dec 18-3:25 PM

2

Minor arc: an arc with a measure between 0° and 180° Labeled by 2 or 3 points. Measure of a minor arc = measure of the arc's central angle. Major arc: an arc with a measure between 180° and 360° ONLY Labeled by 3 points. Measure of a major arc = 360° - measure of minor arc Minor Arc Major Arc

Semicircle

• Semicircle: an arc whose measure is 180°

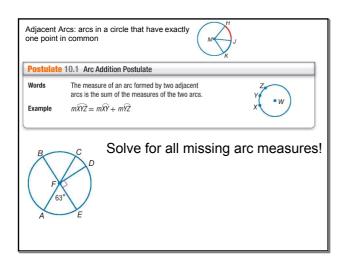
• The endpoints are those of a diameter.

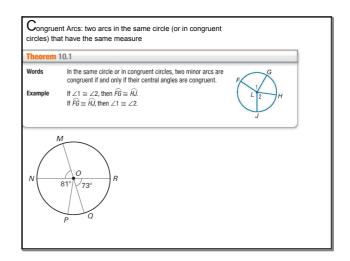
Semicircle

D

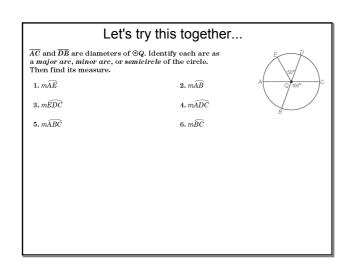
MADJ=180°

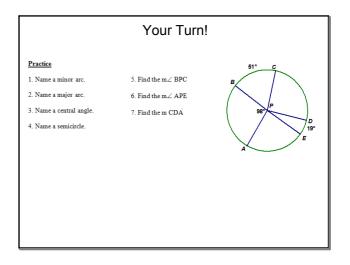
Dec 18-3:25 PM Dec 18-3:25 PM





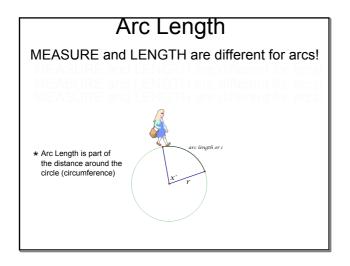
Jan 1-12:49 PM Jan 1-12:52 PM



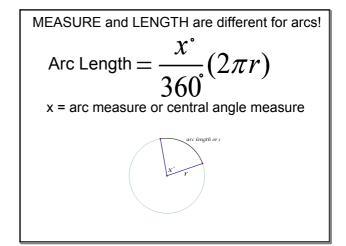


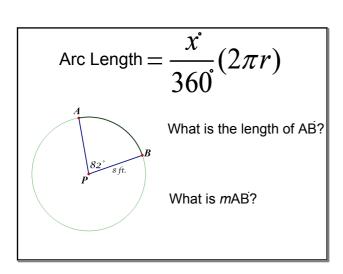
Dec 18-3:25 PM Jan 2-2:37 PM

3



Dec 18-3:25 PM Dec 18-3:41 PM





Dec 18-3:48 PM Jan 2-2:47 PM

Let's try these together...

Use $\odot O$ to find the length of each arc. Round to the nearest hundredth.

- 1. \widehat{DE} if the radius is 2 meters
- **2.** \widehat{DEA} if the diameter is 7 inches
- $3.\widehat{BC}$ if BE=24 feet
- **4.** \widehat{CBA} if DO = 3 millimeters

