

Objectives:

1. The student will identify segments and lines related to circles.
2. The student will apply properties of tangents to circles.
3. The student will be able to apply properties of arcs of circles.
4. The student will be able to apply properties of chords of circles.

Circle:

Radius:

Congruent Circles:

Diameter:

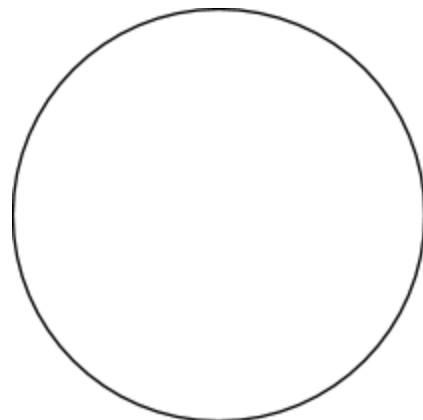
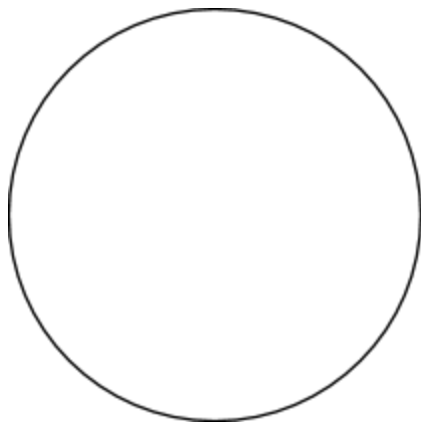
Chord:

Diameter vs Chord

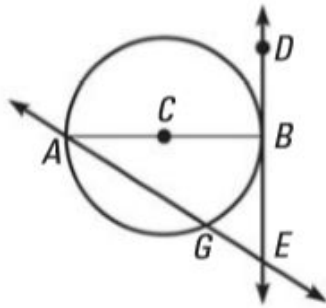
Secant:

Tangent

Secant vs Tangent

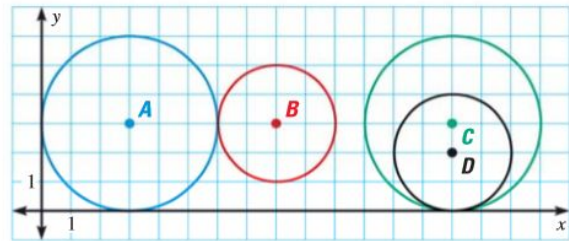


1. Identify special segments:



2. Use the diagram to find the given lengths:

- Radius of $\odot A$
- Diameter of $\odot A$
- Center of $\odot B$



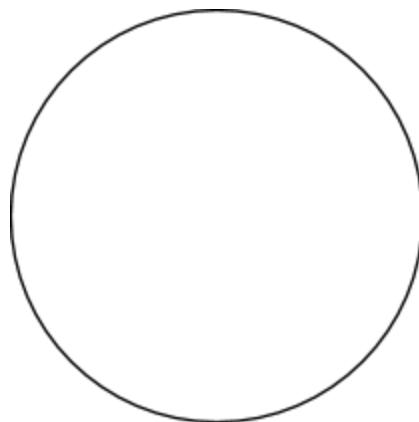
- **Concentric Circles**

Central Angle:

Minor Arc:

Major Arc:

Semicircle:



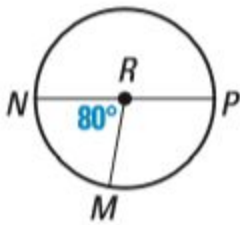
Naming Arcs

Measuring Arcs:

- Measure of a minor arc:

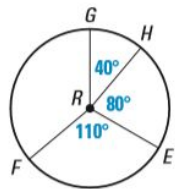
- Measure of a major arc:

1. Find the measure of each of the arcs in $\odot R$

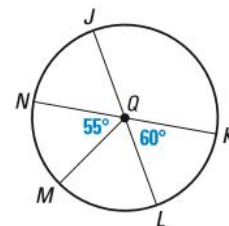


2. Find the measure of each arc:

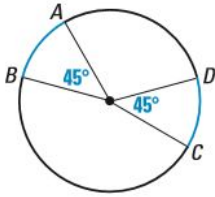
a.



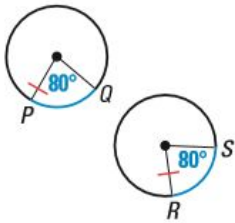
b.



3. Find the measure of \widehat{AB} and \widehat{DC}



4. Find the measure of \widehat{PQ} and \widehat{SR}



5. Find the measure of \widehat{XY} and \widehat{ZW}

