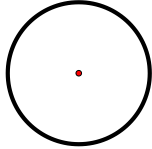
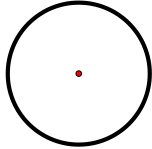
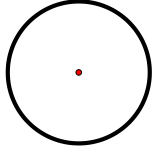
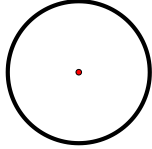
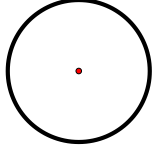
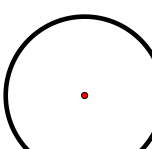
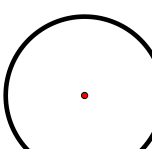
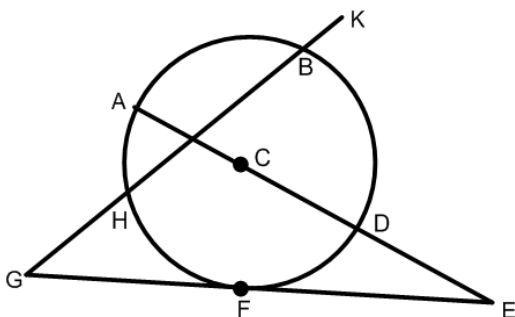


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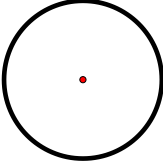
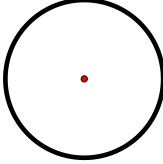
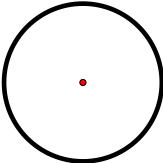
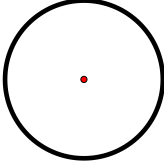
Vocabulary, Central Angles & Inscribed Angles

Circle	set of all points equidistant from a given point called the center of the circle	
Chord	a segment whose endpoints are on the circle	
Diameter	distance across the circle through its center	
Radius	distance from the center to point on circle	
Secant	a line that intersects the circle at exactly TWO points	
Tangent	a line that intersects the circle exactly ONE time	
Point of Tangency	where the tangent line intersects the circle	

EXAMPLE 1: Tell whether the line or segment is best described as a chord, a secant, a tangent, a diameter, or a radius—be specific!



- a. \overline{AD}
- b. \overline{CD}
- c. \overline{EG}
- d. \overline{HB}
- e. \overline{FB}
- f. \overline{AC}
- g. \overline{FE}

<p>Central Angle: an angle whose vertex is the center of a circle</p>		
<p>Minor Arc: part of a circle that measures less than 180°</p>		
<p>Major Arc: part of a circle that measures between 180° and 360°</p>		
<p>Semicircle: an arc with endpoints that are the endpoints of a diameter of a circle. The measure of a semicircle is 180°</p>		

BASIC REVIEW:

- A circle has _____
- A semicircle has _____
- Vertical angles are _____
- Linear pairs are _____

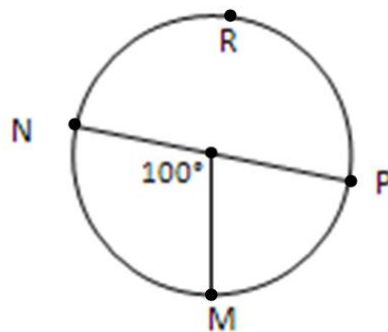
EXAMPLE 1: Finding measures of each arc of circle R. (NP is a diameter)

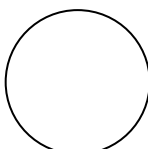
a. \widehat{MN}

b. \widehat{MPN}

c. \widehat{PMN}

d. \widehat{PM}



<p>Arc Addition Postulate The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs</p>	
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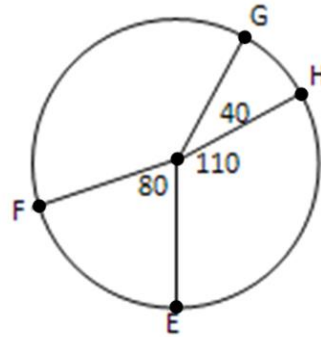
EXAMPLE 2: Finding the measures of Arcs

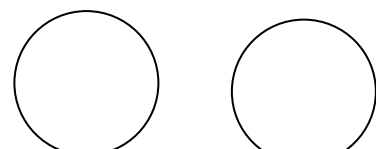
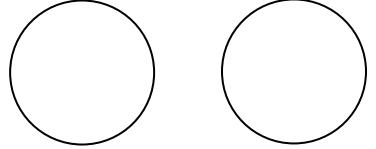
a. \widehat{GE}

b. \widehat{GEF}

c. \widehat{GF}

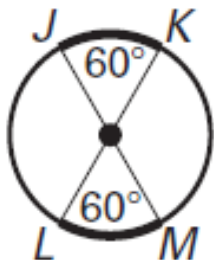
d. \widehat{FHE}



<p>Congruent Circles: Two circles that have the same radius.</p>	
<p>Congruent Arcs: Two arcs that have the same measure. They are part of the same circle or congruent circles</p>	

EXAMPLE 3: Tell whether the highlighted arcs are congruent. Explain why or why not.

a.



b.

