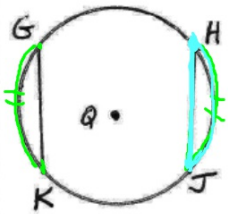


THEOREM



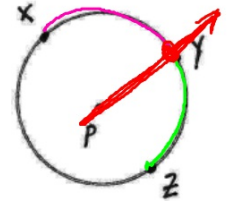
In the same circle or in congruent circles:

1. congruent arcs have congruent chords
2. Congruent chords have congruent arcs

1. If  $\widehat{GK} \cong \widehat{HJ}$ , then  $\overline{GK} \cong \overline{HJ}$
2. If  $\overline{GK} \cong \overline{HJ}$ , then  $\widehat{GK} \cong \widehat{HJ}$

A point Y is called the midpoint of  $\widehat{XYZ}$  if  $\widehat{XY} \cong \widehat{YZ}$ .

Any line, segment, or ray that contains Y bisects  $\widehat{XYZ}$



$\widehat{PY}$   
(Radius)

