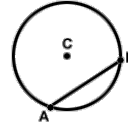


**SLO: I can solve problems involving chords, parallel lines, and intercepted arcs.** Problems worthy of attack prove their worth by fighting back. —Piet Hein THE ROAD TO WISDOM? Well, it's plain and simple to express. Err and err and err again, but less and less and less. —Piet Hein.

**VOCABULARY (have your vocabulary sheet out EVERY day)**

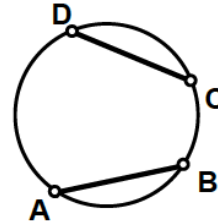
(1) On your vocabulary sheet, add the definition and diagram for the term **chord**.

**chord – a line segment that links two points on a circle or curve.**



(2) Chords AB and DC are congruent. Show this in the diagram.

(3) What does it look like is true about arcs AB and DC?

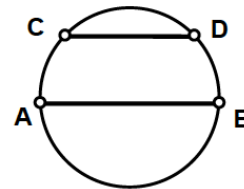


\_\_\_\_\_

Prove that your observation is true. (Label the center C)

(4) Chords AB and DC are parallel. Show this in the diagram.

(5) What does it look like is true about arcs AB and DC?

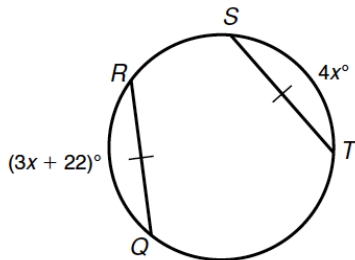


\_\_\_\_\_

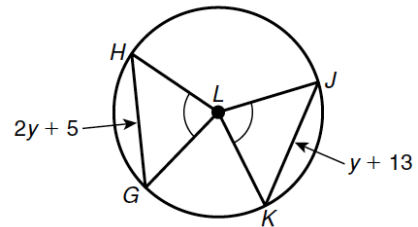
Prove that your observation is true.

Solve each problem for the indicated unknown.

6)  $\overline{QR} \cong \overline{ST}$ . Find  $m\widehat{QR}$ .



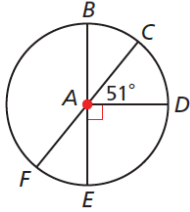
7)  $\angle HLG \cong \angle KLJ$ . Find  $\widehat{GH}$ .



**SLO: I can solve problems involving chords, parallel lines, and intercepted arcs.** Problems worthy of attack prove their worth by fighting back. —Piet Hein THE ROAD TO WISDOM? Well, it's plain and simple to express. Err and err and err again, but less and less and less. —Piet Hein.

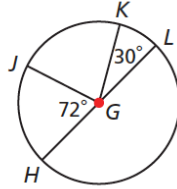
8)

$m\widehat{DF}$   
 $m\widehat{DEB}$



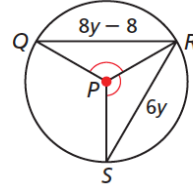
9)

$m\widehat{JL}$   
 $m\widehat{HLK}$



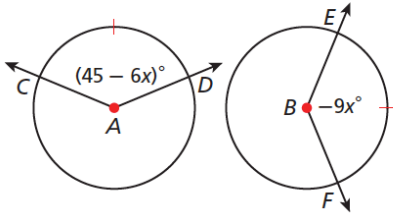
10)

$\angle QPR \cong \angle RPS$ . Find QR.

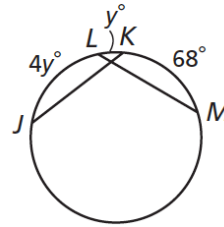


11)

$\odot A \cong \odot B$ , and  $\widehat{CD} \cong \widehat{EF}$ . Find  $m\angle EBF$ .

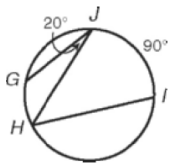


12)  $\overline{JK} \cong \overline{LM}$ . Find  $m\widehat{JK}$ .



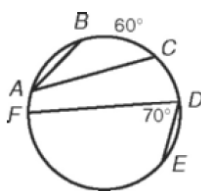
REVIEW

13)

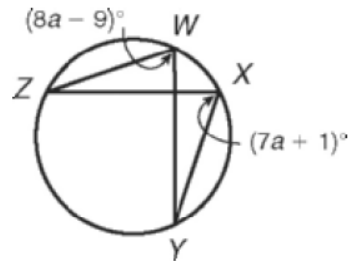


$m\angle IHJ =$   
 $m\widehat{GH} =$

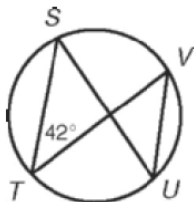
14)



$m\angle BAC =$  15)  
 $m\widehat{FE} =$



16)



$m\angle VUS =$

17)

