

8.3

Name (print first and last) \_\_\_\_\_ Per \_\_\_\_\_ Date: 3/27 due 3/28

8.3 Circles: Congruent and parallel chords and their intercepted arcs Geometry Regents 2013-2014 Ms. Lomac

SLO: I can identify relationships with arc measures and chords and use them to solve problems.

(1)  On page 1 of your circle notes, match the term and description with the diagram. Cut and tape each term next to its diagram.

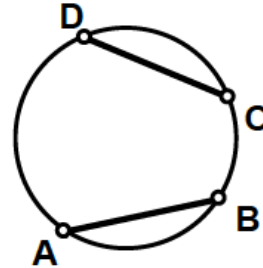
(2)  Chords AB and DC are congruent. Show this in the diagram.

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

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

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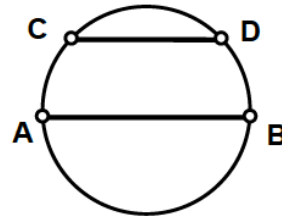
(4)  Chords AB and DC are parallel. Show this in the diagram.

(5)  What does it look like is true about arcs AC and BD?

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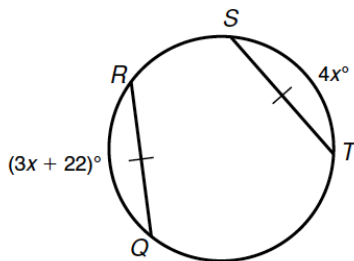
Prove that your observation is true.

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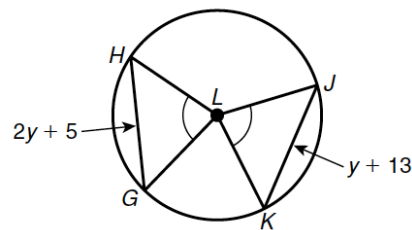


Solve each problem for the indicated unknown.

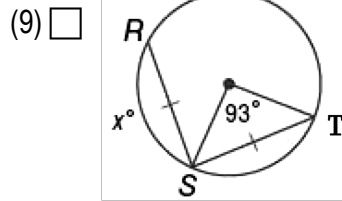
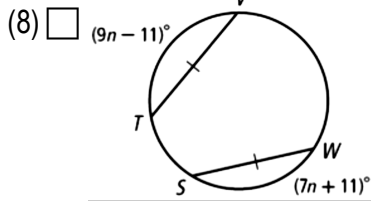
(6)   $\overline{QR} \cong \overline{ST}$ . Find  $m\widehat{QR}$ .



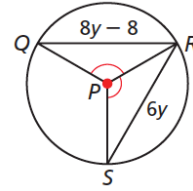
(7)  $\angle HLG \cong \angle KLJ$ . Find  $\widehat{GH}$ .



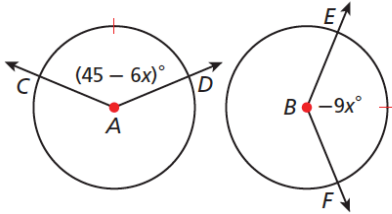
8.3



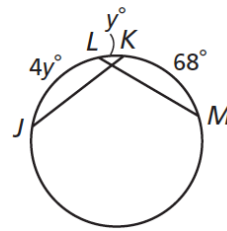
(10)   $\angle QPR \cong \angle RPS$ . Find  $QR$ .



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



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



REVIEW

