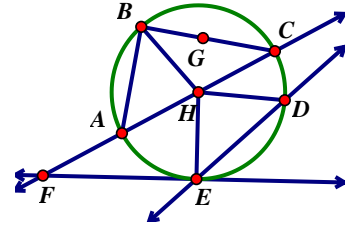


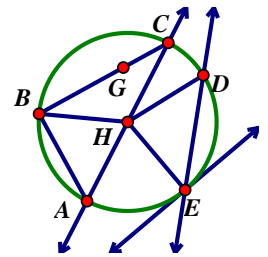
1. Match the following for Circle A (use each item once).

- |                       |                         |                              |                     |
|-----------------------|-------------------------|------------------------------|---------------------|
| a. _____ Major Arc    | f. _____ Center         | 1. $\overleftrightarrow{FC}$ | 6. $\overline{BC}$  |
| b. _____ Diameter     | g. _____ Secant line    | 2. $\widehat{BE}$            | 7. Point F          |
| c. _____ Chord        | h. _____ Exterior Point | 3. $\overline{HD}$           | 8. $\overline{CA}$  |
| d. _____ Minor Arc    | i. _____ Radius         | 4. $\overleftrightarrow{FE}$ | 9. Point H          |
| e. _____ Tangent line | j. _____ Semi-Circle    | 5. $\widehat{ADC}$           | 10. $\widehat{ABE}$ |



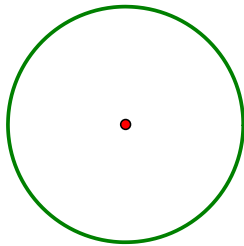
2. Complete the following using the diagram.

- How many chords are in the diagram? \_\_\_\_\_
- List all of the Radii in the diagram. \_\_\_\_\_
- Name all of the secants in the diagram. \_\_\_\_\_

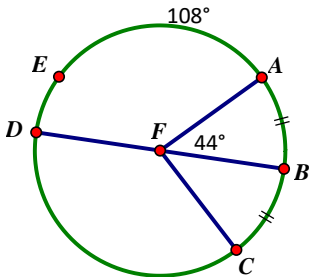


3. Draw the following relationships.

- Tangent lines  $\overleftrightarrow{GE}$  and  $\overleftrightarrow{GF}$  intersect circle A at E and F.

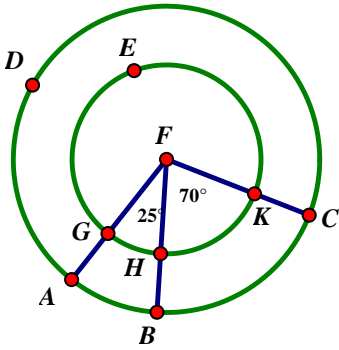


4. Determine the arc measure.



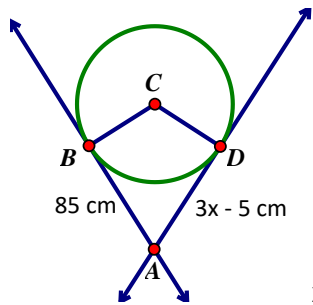
- |                             |                             |
|-----------------------------|-----------------------------|
| a) $m\widehat{AC} =$ _____  | c) $m\widehat{EC} =$ _____  |
| b) $m\widehat{DAE} =$ _____ | d) $m\widehat{DEC} =$ _____ |

5. In the figure below,  $F$  is the center of two concentric circles with radii  $\overline{FG}$  and  $\overline{FA}$ ,  $m\angle GFH = 25^\circ$  and  $m\angle HFK = 70^\circ$ .



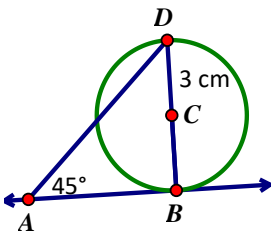
- a)  $m\widehat{BC} =$  \_\_\_\_\_      b)  $m\widehat{HK} =$  \_\_\_\_\_  
 c)  $m\widehat{GEK} =$  \_\_\_\_\_      d)  $m\widehat{AB} =$  \_\_\_\_\_  
 e)  $m\widehat{ADC} =$  \_\_\_\_\_      f)  $m\widehat{AC} =$  \_\_\_\_\_

6. Solve for  $x$ .



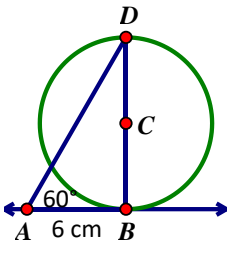
$x =$  \_\_\_\_\_

7. Solve for the missing information, given the  $\overleftrightarrow{AB}$  is a tangent line to circle C.



$AD =$  \_\_\_\_\_ (E)

8. Solve for the missing information, given the  $\overleftrightarrow{AB}$  is a tangent line to circle C.



DC = \_\_\_\_\_ (E)