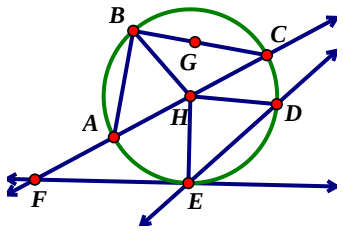
Geometry (G.C.1, 2)
Unit Five: Circles Assessment #1 Review #2 (HW5.5)

Name: _____
Date: _____ Period: _____

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

a. 10 Major Arc
b. 8 Diameter
c. 6 Chord
d. 2 Minor Arc
e. 4 Tangent line
f. 9 Center
g. 1 Secant line
h. 7 Exterior Point
i. 3 Radius
j. 5 Semi-Circle

1. $\overleftrightarrow{FC}$
2. $\overset{\frown}{BE}$
3. $\overline{HD}$
4. $\overleftrightarrow{FE}$
5. $\overset{\frown}{ADC}$
6. $\overline{BC}$
7. Point F
8. $\overline{CA}$
9. Point H
10. $\overset{\frown}{ABE}$

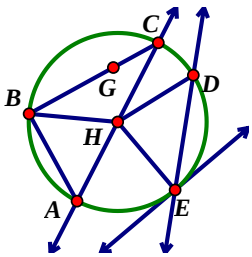


2. **Complete the following using the diagram.**

a) How many chords are in the diagram? 4

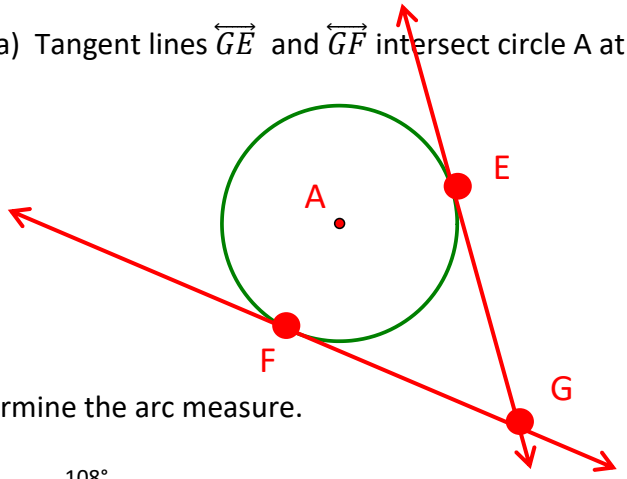
b) List all of the Radii in the diagram. $\overline{HB}, \overline{HA}, \overline{HC}, \overline{HD}, \overline{HE}$

c) Name all of the secants in the diagram. $\overleftrightarrow{AC}, \overleftrightarrow{DE}$

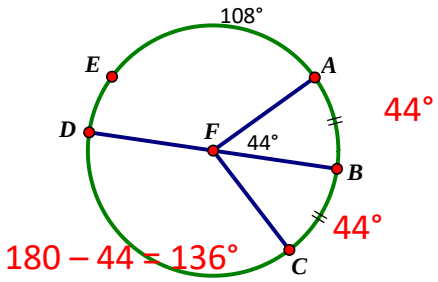


3. Draw the following relationships.

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



4. Determine the arc measure.



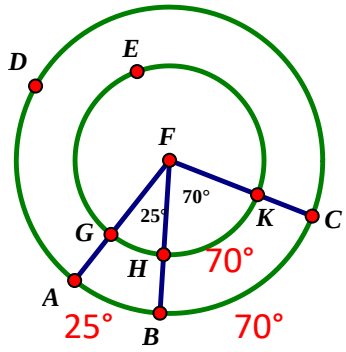
a) $m\overset{\frown}{AC}$ = 88°

b) $m\overset{\frown}{DAE}$ = 332°

c) $m\overset{\frown}{EC}$ = 164°

d) $m\overset{\frown}{DEC}$ = 224°

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



a) m$\widehat{BC}$= 70°

b) m$\widehat{HK}$= 70°

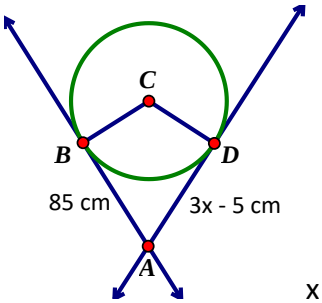
360 – 25 - 70° c) m$\widehat{GEK}$ = 265°

d) m$\widehat{AB}$ = 25°

360 – 25 - 70° e) m$\widehat{ADC}$ = 265°

f) m$\widehat{AC}$ = 95°

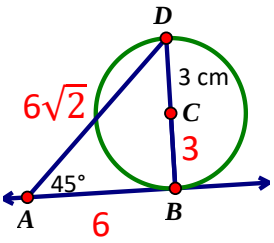
6. **Solve for x.**



85 = 3x – 5
90 = 3x
x = 30

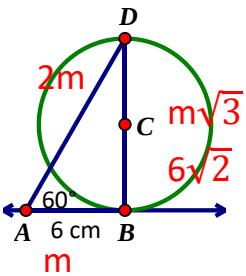
x = 30

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



AD = 6√2 (E)

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



DC = 3√2 (E)