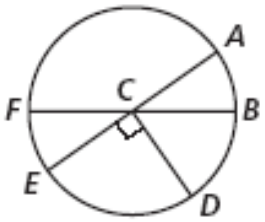
Name _____ Hour _____

Unit 6 – Arcs and Central Angles

1. In circle *C,* $\overline{EA}$ and $\overline{FB}$ are diameters. Identify the following.

a. two major arcs

b. two minor arcs



c. a central angle of a minor arc

d. a central angle of a major arc

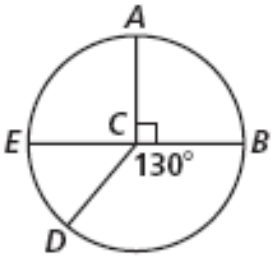
e. a semicircle

f. a pair of congruent angles

2. Using the picture at the right, find the measure of each arc in circle *C.* Show work when possible.

a. $\overset{\frown}{AE}$

b. $\overset{\frown}{ED}$



c. $\overset{\frown}{DBA}$

d. $\overset{\frown}{AED}$

e. $\overset{\frown}{ABD}$

f. $\overset{\frown}{BD}$

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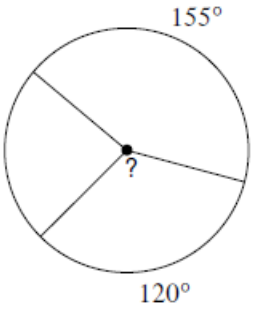
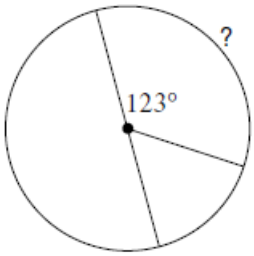
3. Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters. Show your work.

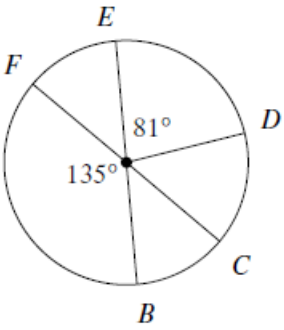
a.



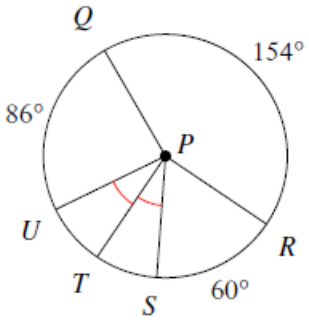
b.



c. $m\overset{\frown}{CFD}$



d. $m\angle SPQ$



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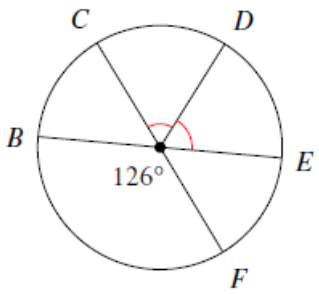
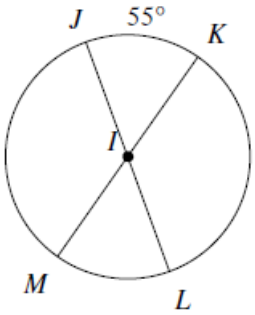
e. $m\widehat{EFC}$

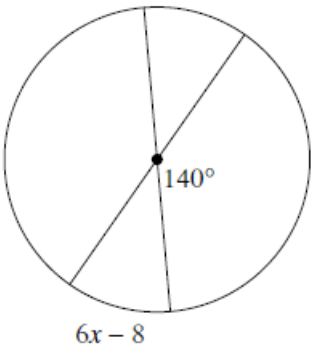


f. $m\angle MIJ$



4. Solve for *x*. Assume that lines which appear to be diameters are actual diameters.

a.



b.