

GSE Accelerated Geometry EXAM REVIEW

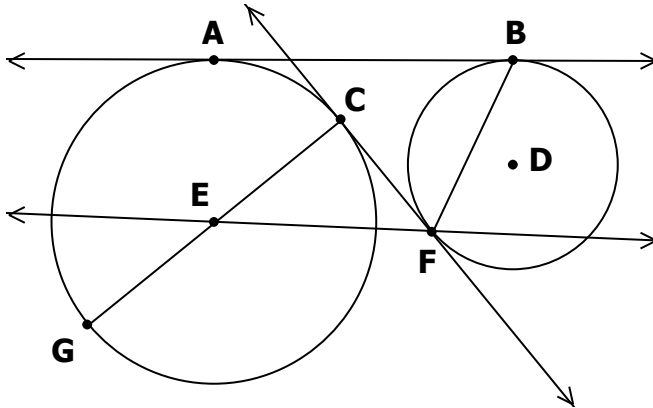
Name _____

Period _____ Date _____

Part 2

(Note: Assume things that appear to be tangent really are tangent.)

1. **Vocab.** Match each object to the word/phrase that **best** describes it. You will NOT use all the words.



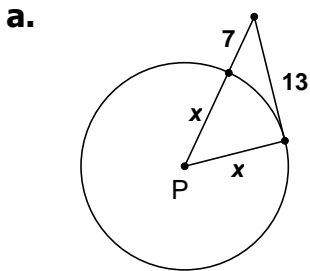
- common external tangent
- common internal tangent
- point of tangency
- chord (not a diameter)
- Diameter
- Congruent circles
- Similar circles
- minor arc
- secant
- center
- major arc
- semicircle

You will NOT use all the words. radius

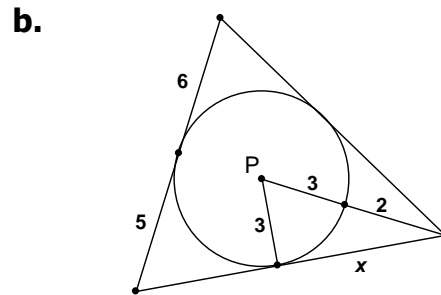
- a. \overleftrightarrow{CF} _____
 b. \overline{GAC} _____
 c. \overline{BF} _____

- d. \overleftrightarrow{EF} _____
 e. \overleftrightarrow{AB} _____
 f. \overline{AGC} _____

2. **Segments, Part A.** Find x . Give non-integer answers as reduced fractions. Use Pythagorean Theorem on a and b.

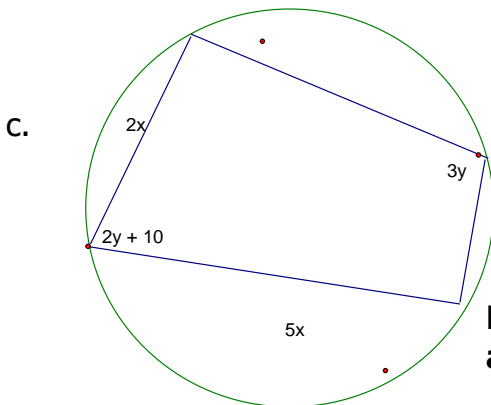


$x =$ _____



$x =$ _____

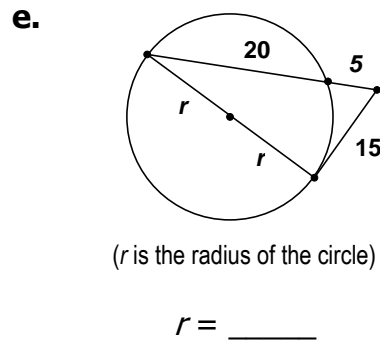
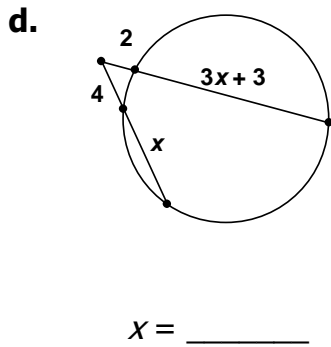
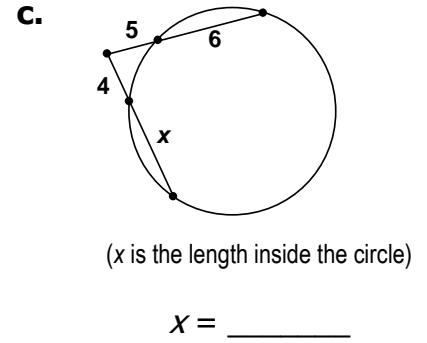
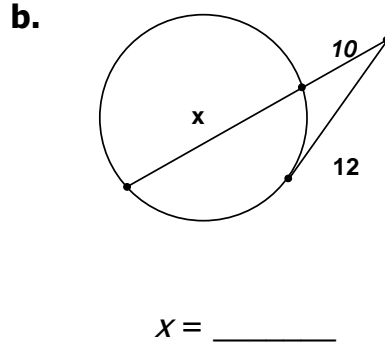
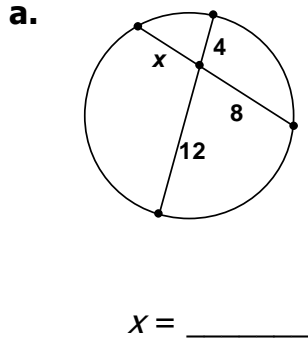
Perimeter of the big $\Delta =$ _____



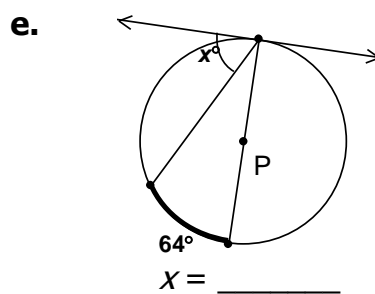
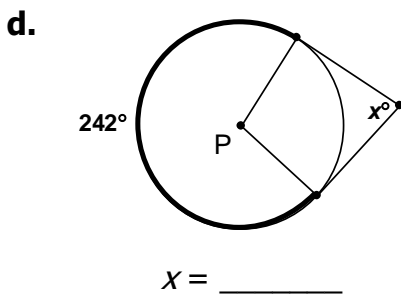
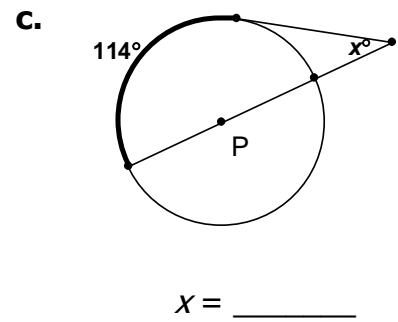
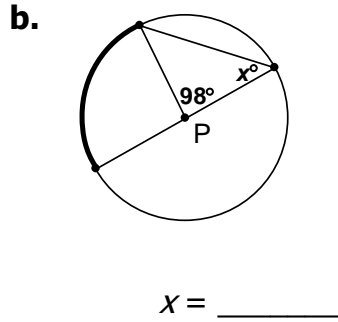
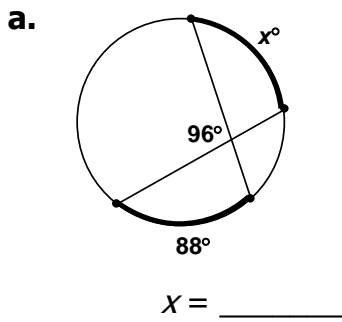
$x =$ _____ $y =$ _____

Note: **Opposite angles of a quadrilateral inscribed in a circle are supplementary.**

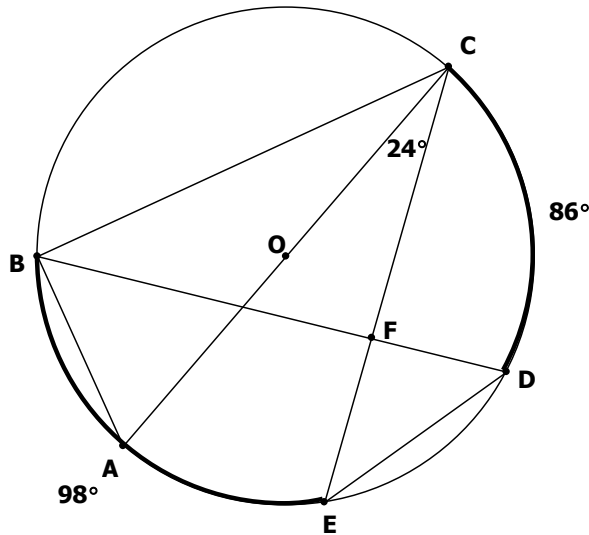
3. Segments, Part B. Solve for the variable. Give non-integer answers as reduced fractions.
 Use theorems such as $\text{whole} \times \text{outside} = \text{whole} \times \text{outside}$ OR $\text{whole} \times \text{outside} = \text{tangent}^2$



4. Angle and Arc Measures. Find the value of x. Assume P is the center.



5. Circle Puzzles.



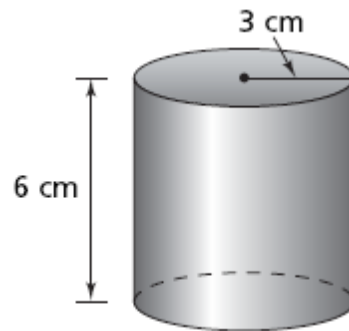
Given: $m\widehat{CD} = 86^\circ$; $m\widehat{BE} = 98^\circ$;
 $m\angle ACE = 24^\circ$; \overline{AC} is a diameter of $\odot O$

- a. $m\widehat{AB}$ _____
- b. $m\angle EFB$ _____
- c. $m\angle BCA$ _____
- d. $m\angle BAC$ _____
- e. $m\widehat{AD}$ _____
- f. $m\angle BDE$ _____

6. OMIT

7. Volume: Give exact answers only.

(a) Find the volume of the cylinder.



(b) Spaceship Earth at Epcot Center in Florida is a 180-foot Geosphere. Find the volume by assuming it is a sphere with a diameter of 180 ft.

(c) A Native American Tepee (conical tent) has a height of 12 feet and a base with a radius of 6 feet. What is the volume of the _____ Tepee?

(d) A candle mold is in the shape of a square pyramid, whose length of the sides of the base is 3 inches and the height is 5 inches. How much wax is needed for each candle?