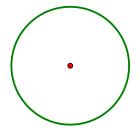
1. Why are all circles similar?

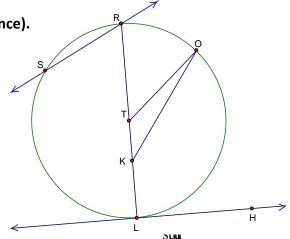
2. List one of each of the following for Circle T (use each item once).

- a. _____ Major Arc
- f. _____ Interior Point
- b. _____ Diameter
 - g. _____ Secant line
- c. ____ Chord h. ____ Exterior Point
- d. _____ Minor Arc i. ____ Center
- e. _____ Tangent line j. _____ Semi-Circle

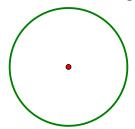
3. Draw the following relationships.

a) Secant GE and chord AB intersect on Circle K.

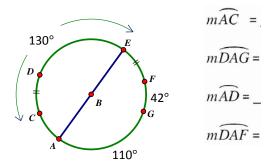




b) Diameter BE and tangent GE intersect at E.

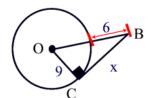


4. Determine the measure of the following arcs.



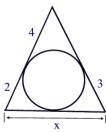
5. Assume that segments/lines which appear tangent are.

Find the perimeter of $\triangle OCB$.

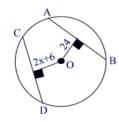


6. Assume that segments/lines which appear tangent are.

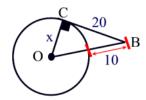
a) Find the perimeter of the triangle.



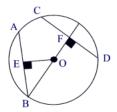
c) Given $\overline{CD} \cong \overline{AB}$. Find x.



b) Find OB.



d) Given $\overline{OE}\cong \overline{OF}$, AE = 6, OB = 10. Find OF.

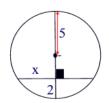


e)

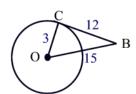
Given: Circle O, $\widehat{AB} \cong \widehat{CD}$ AB = 12OD = 8

Find CD.

f) Find x.



g) Is \overline{BC} tangent to the circle?



7. Determine the equation of circle C, C(-2,5) with the given information.

- a) is tangent to the x axis
- b) goes through D(-2,1)
- c) is tangent to the y axis

$$(x+2)^2 + (y-5)^2 =$$

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 $(x+2)^2 + (y-5)^2 =$ $(x+2)^2 + (y-5)^2 =$

$$(x+2)^2 + (y-5)^2 =$$

- d) has a radius of 7 cm.
- e) goes through D(4,-3) f) goes through D(0,3)

$$(x+2)^2 + (y-5)^2 =$$
 $(x+2)^2 + (y-5)^2 =$ $(x+2)^2 + (y-5)^2 =$

$$(x+2)^2 + (y-5)^2 =$$

$$(x+2)^2 + (y-5)^2 =$$

8. What is the center and radius of the circle? $(x-5)^2 + (y+3)^2 = 25$

c=____; r=____