

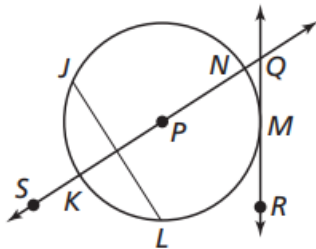
Name:

Date:

Period:

HW #10-6

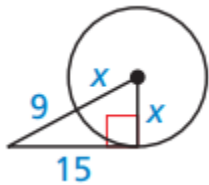
Use the diagram for #1-6



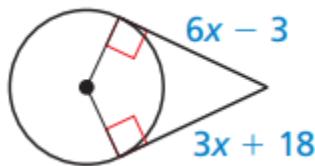
1. Name the circle _____
2. Name a diameter _____
3. Name a radius _____

4. Name a chord _____
5. Name a tangent _____
6. Name a secant _____

7. Find the value of x .

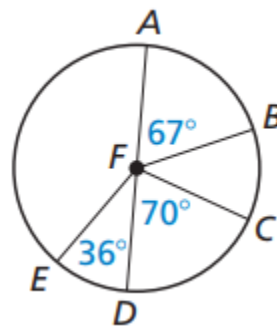


8. Find the length of each tangent segment.



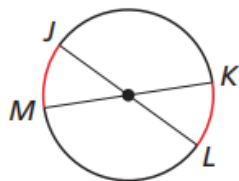
9. Identify each arc as a minor arc, major arc, or a semicircle. Then find the measure of each arc.

- a. $\widehat{AE}$ _____
- b. $\widehat{BC}$ _____
- c. $\widehat{AC}$ _____
- d. $\widehat{ACD}$ _____
- e. $\widehat{ACE}$ _____
- f. $\widehat{BEC}$ _____

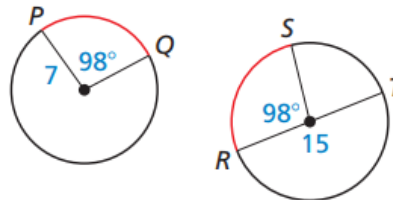


10. Tell whether the arcs are congruent. Explain why or why not.

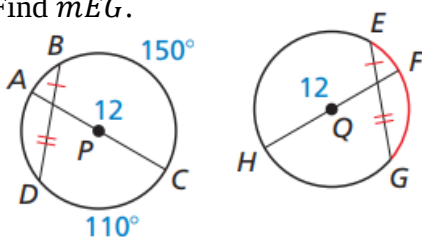
- a. $\widehat{JM}$ and $\widehat{KL}$



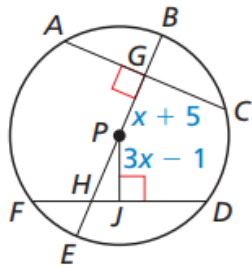
- b. $\widehat{PQ}$ and $\widehat{RS}$



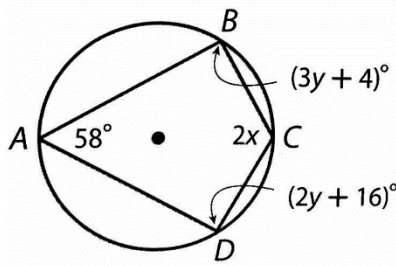
11. Find $m\widehat{EG}$.



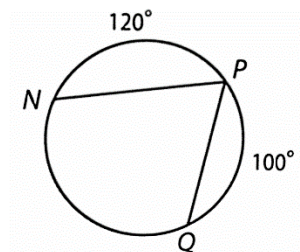
12. In the diagram, $AC = FD = 30$, $PG = x + 5$ and $PJ = 3x - 1$. Find the radius of $\odot P$.



13. Find $m\angle B$ and $m\angle C$.

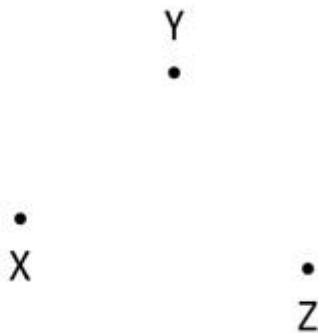


14. Find $m\angle P$

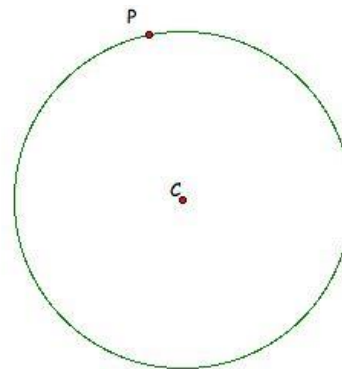


15. Complete the following constructions. *Only 2 will be on the quiz, but you won't know which ones until tomorrow!*

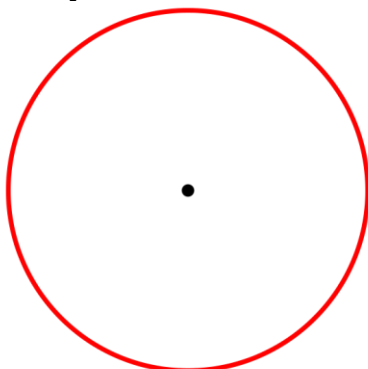
a. Construct the circle passing through the 3 points.



b. Construct the line tangent to $\odot C$ through P.



c. Construct a square inscribed in the circle below.



d. Construct the line tangent to $\odot O$ through B.

