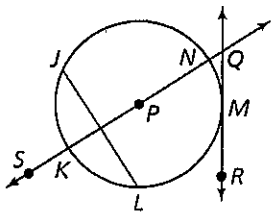
Name: Period:

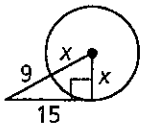
HW #10-5 Quiz Review

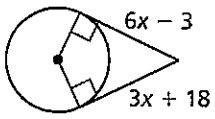
In Exercises 1–6, use the diagram.

1. Name the circle.
2. Name a radius.
3. Name a diameter.
4. Name a chord.
5. Name a secant.
6. Name a tangent.



Find the value of x.

7. 

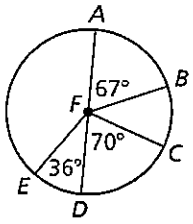
8. 

* Complete on a separate sheet of graph paper.

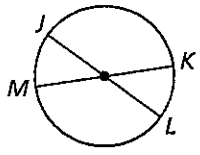
* Check answers on website!

Identify the given arc as a *major arc*, *minor arc*, or *semicircle*. Then find the measure of the arc.

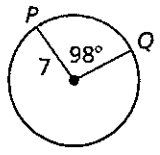
9. $\overset{\frown}{AE}$
10. $\overset{\frown}{BC}$
11. $\overset{\frown}{AC}$
12. $\overset{\frown}{ACD}$
13. $\overset{\frown}{ACE}$
14. $\overset{\frown}{BEC}$

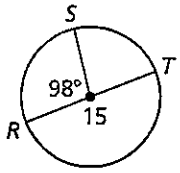


Tell whether the arcs are congruent. Explain why or why not.

15. 

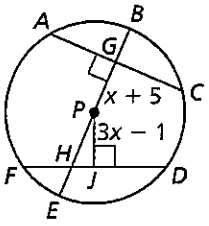
$\overset{\frown}{JM}$ and $\overset{\frown}{KL}$

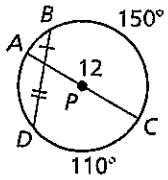
16. 

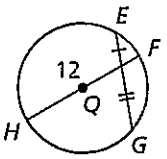


$\overset{\frown}{PQ}$ and $\overset{\frown}{SR}$

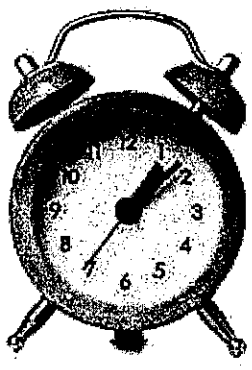
17. Find the measure of $\overset{\frown}{EG}$.







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



19. A circular clock can be divided into 12 congruent sections.
    a. Find the measure of each arc in this circle.
    b. Find the measure of the minor arc formed by the hour and minute hands when the time is 7:00.
    c. Find a time at which the hour and minute hands form an arc that is congruent to the arc in part (b).