Name _____ Date _____

Geometry Quiz #10 Review

Use the diagram.

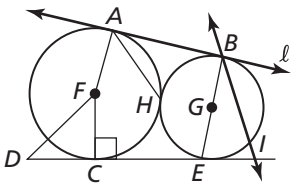
1. Name the diameter of $\odot G$. **2.** Name a chord of $\odot F$.

3. Name a common tangent and a point of tangency.

4. Name a radius of $\odot F$.

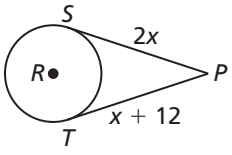
5. Name a minor arc, a major arc, and a semicircle.

6. Name a secant.



Points *S* and *T* are points of tangency. Find the value of *x*.

7.



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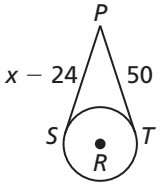

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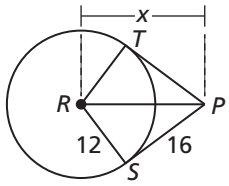
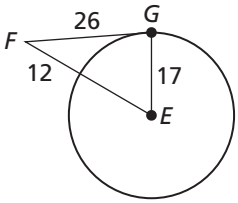
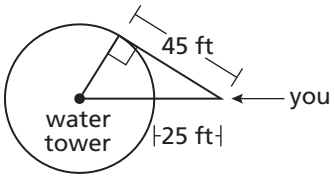


10. Determine whether $\overline{FG}$ is tangent to $\odot E$. Explain.

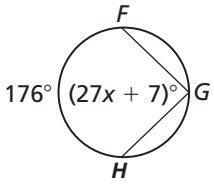


11. You are standing 25 feet from a water tower. The distance from you to the point of tangency on the tower is 45 feet. What is the radius of the water tower?

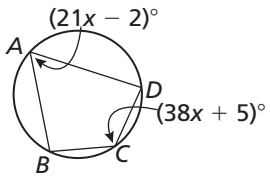


Find the indicated measure.

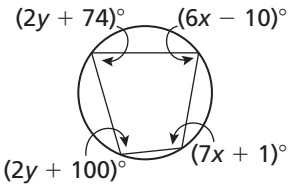
12. Find the value of x.



13. $m\widehat{BCD}$

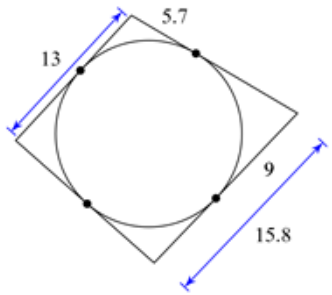


14. Find the values of x and y.



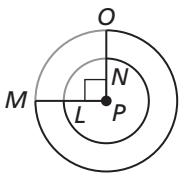
Find the perimeter of the polygon. The four sides are tangent to the circle.

15.



Tell whether the two gray arcs are similar and/or congruent. Explain your answers.

16.



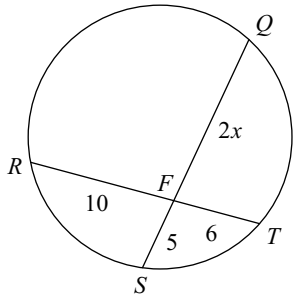
The gray arcs are MO and LN.

Answers

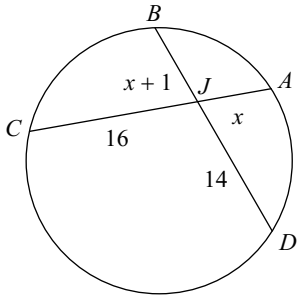
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. x = _____ y = _____
15. _____
16. _____

Find the length of the segment indicated. Assume that lines which appear to be tangent are, in fact, tangent. Show all work and box your answers.

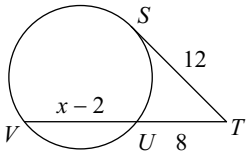
17) Find *SQ*



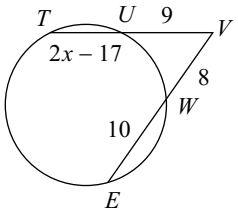
18) Find *JA*



19) Find *UV*

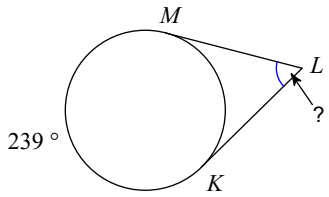


20) Find *TU*



Find the degree measure of the arc or angle indicated. Assume that lines which appear to be tangent are, in fact, tangent. Show all work and box your answers.

21)



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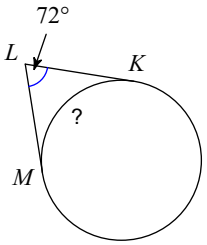

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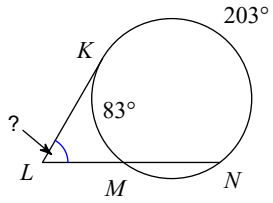

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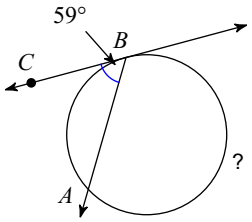

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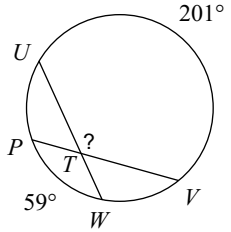

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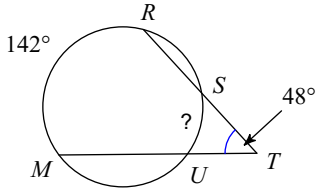
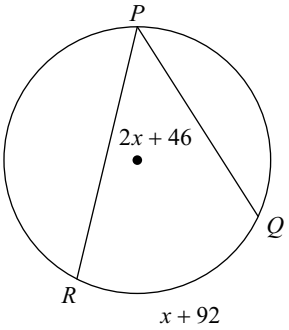
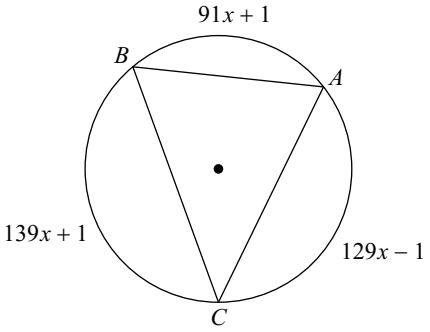


Find the degree measure of the arc or angle indicated. Show all work and box your answers.

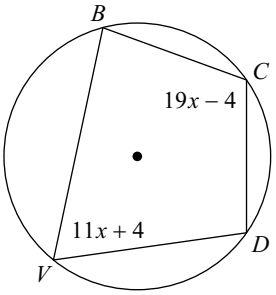
27) Find $m\angle QPR$



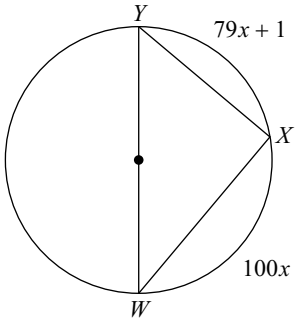
28) Find $m\overset{\frown}{BA}$



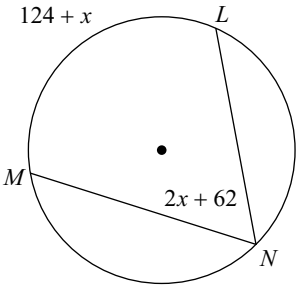
29) Find $m\angle BVD$



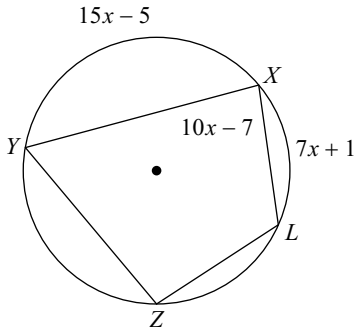
30) Find $m\angle WYX$



31) Find $m\overset{\frown}{ML}$

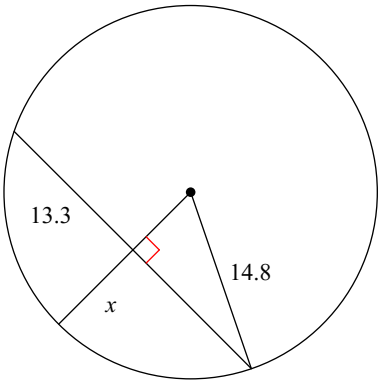


32) Find $m\overset{\frown}{YX}$



Find the length of the segment indicated to the nearest tenth. Show all work. Box your answers.

33)



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