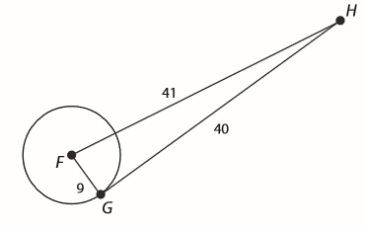
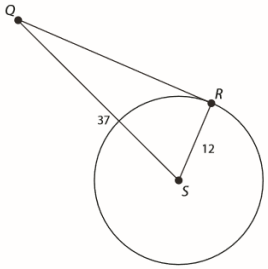
Name: Date:

Unit 4 Circles and Volume
Practice 4.4 Tangents to Circles

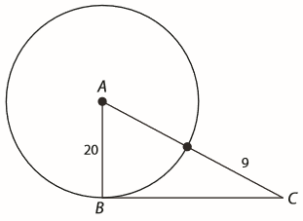
1. Is $\overline{GH}$ tangent to $\odot F$ in the diagram below



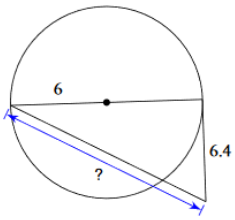
2. $\overline{QR}$ is tangent to $\odot S$ at point R. What is the length of $\overline{QR}$?



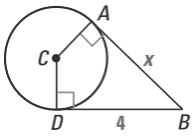
3. $\overline{BC}$ is tangent to $\odot A$ at point B in the diagram below. What is the length of BC



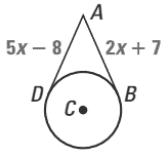
4. Find the segment length indicated.



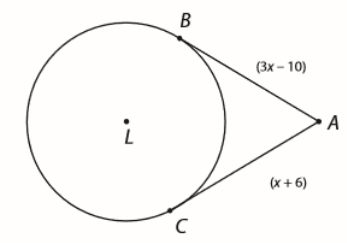
5. $\overline{AB}$ and $\overline{DB}$ are tangent to $\odot C$. Find the value of x.



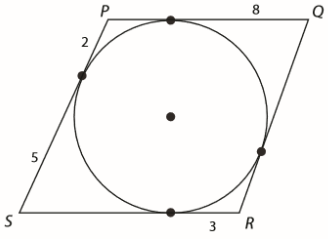
6. $\overline{AB}$ and $\overline{DB}$ are tangent to $\odot C$. Find the value of x.



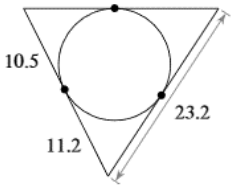
7. $\overline{AB}$ and $\overline{AC}$ are tangent to $\odot L$ in the diagram below. What is the value of x?



8. The sides of quadrilateral PQRS are tangent to the circle at the points as pictured below. What is the length of $\overline{QR}$?



9. Find the perimeter of the triangle, assume the lines are tangent.



10. Find the perimeter of the triangle, assume the lines are tangent.