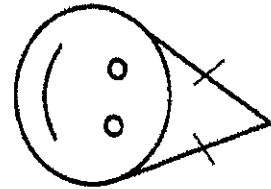


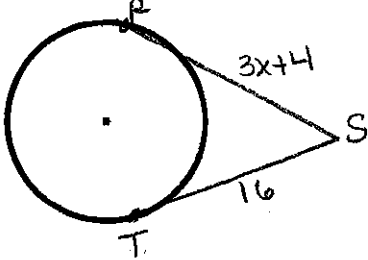
Name: _____ Date: _____

Segment Lengths - Tangents

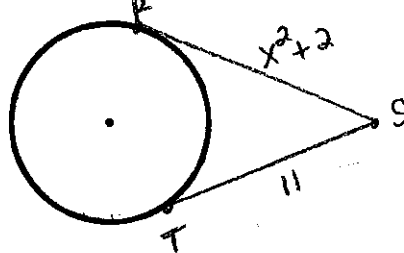
☆ If two segments from the same exterior point are tangent to a circle, then they are congruent.



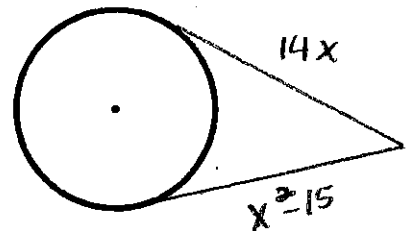
1. $x =$ _____



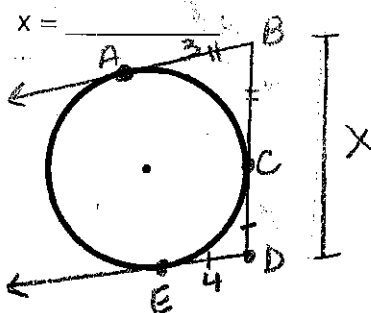
2. $x =$ _____



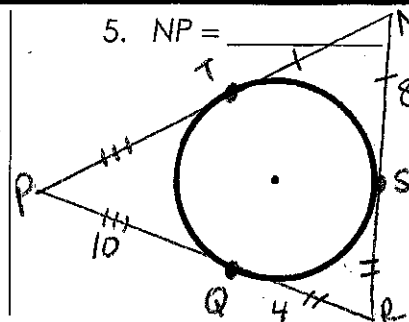
3. $x =$ _____



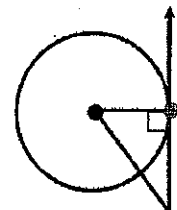
4. $x =$ _____



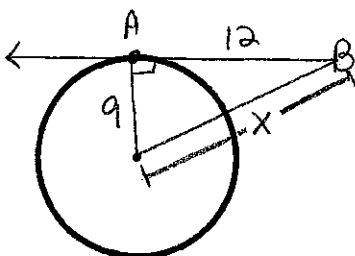
5. $NP =$ _____



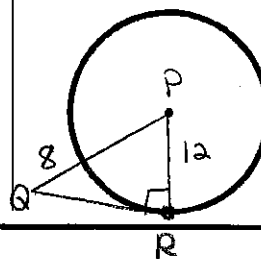
☆ If a line (segment or ray) is tangent to a circle, then it is perpendicular to the radius drawn to the point of tangency.



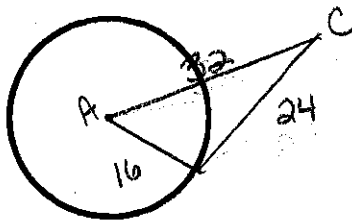
6. $x =$ _____



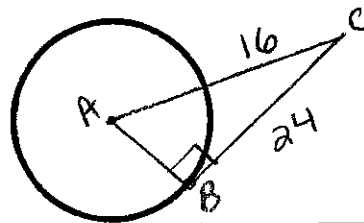
7. $RQ =$ _____



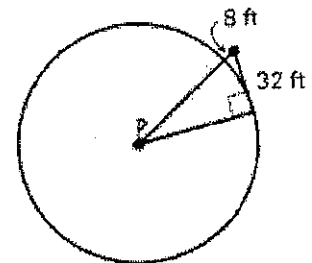
8. Is CB tangent to the circle?



9. $r =$ _____



10. A green on a golf course is in the shape of a circle. Your golf ball is 8 feet from the edge of the green and 32 feet from a point of tangency on the green.



a. $r =$ _____

b. How far is your ball from the cup at the center? _____