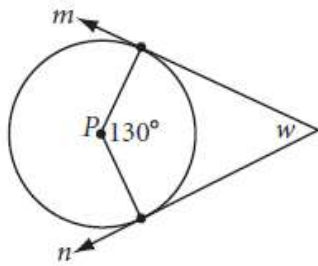Lesson 6.1 Assignment   Name:_____
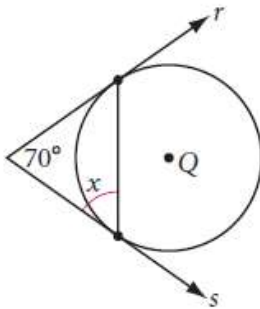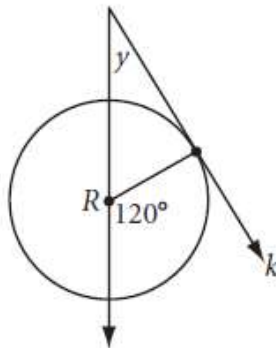
1) 0Rays m and n are tangent to circle P.
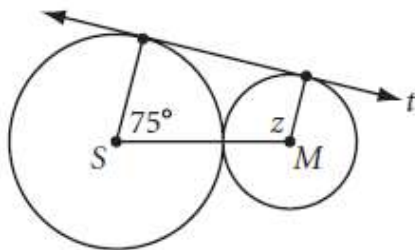
   $w =$_____

2) Rays r and s are tangent to circle Q.
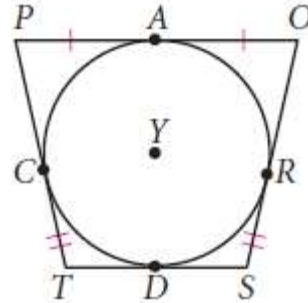
   $x =$_____

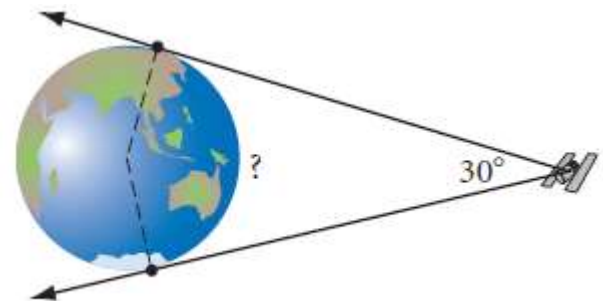3) Ray k is tangent to circle R.

   $y =$_____

4) Line t is tangent to both circles.

   $z =$_____

5) Quadrilateral $POST$ is circumscribed about circle Y. $OR = 13$ in. and $ST = 12$ in. Find the perimeter of $POST$.

6) A satellite in geostationary orbit remains above the same point on Earth's surface even as Earth turns. If such a satellite has a $30°$ view of the equator, what percentage of the equator is observable from the satellite?

7) $\overrightarrow{TA}$ and $\overrightarrow{TB}$ are tangent to circle O. What's wrong with this picture?