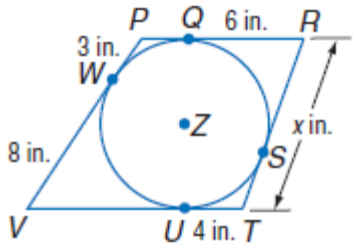
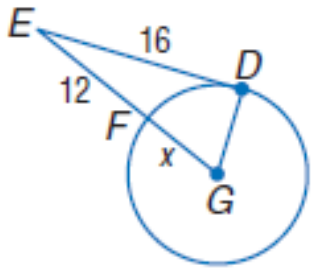
Geometry – 10.5 Tangents Name _____ Hr _____

Find x. Assume that segments that appear to be tangent are tangent.

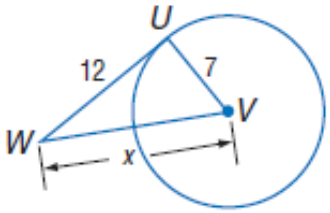
(1)



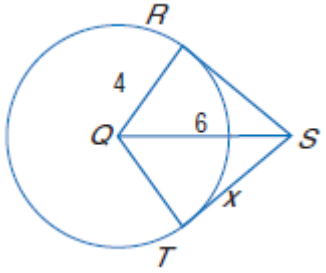
(2)



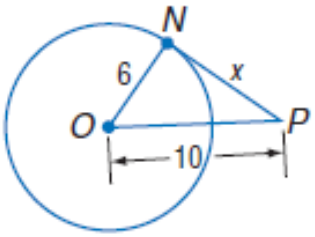
(3)



(4)

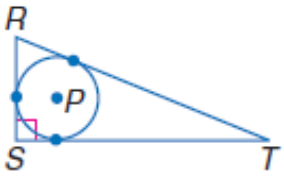


(5)



(6) **Find the perimeter of each polygon for the given information.**

$ST = 18$, radius of $\odot P = 5$



(7) **Solve each equation.** $x + 3 = \frac{1}{2}[(4x + 10) - 45]$

(8) **ADVERTISING** Circles are often used in logos for commercial products. The logo at the right shows two inscribed angles and two central angles. If $\overset{\frown}{AC} \cong \overset{\frown}{BD}$, $m\overset{\frown}{AF} = 90$, $m\overset{\frown}{FE} = 45$, and $m\overset{\frown}{ED} = 90$, find $m\angle AFC$ and $m\angle BED$. (Lesson 10-4)