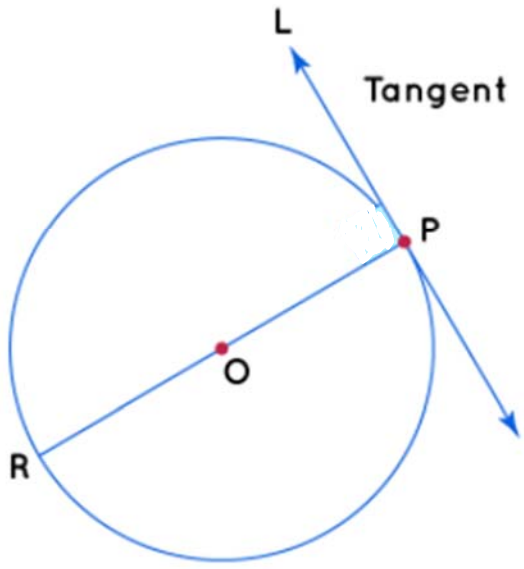
Name: _____ Date:_____
PCH: More with Circles Ms. Loughran

Tangent to a circle



1. Write an equation of the line tangent to the circle $x^2 + y^2 = 25$ at the point in the fourth quadrant where $x = 3$.

2. Write an equation of the line tangent to the circle $x^2 + 14x + y^2 + 18y = 39$ at the point in the second quadrant where $x = -2$.

3. Write an equation of a line tangent to the circle $x^2 + y^2 - 10x - 14y = 95$ at a point where $x = 10$.

4. Find the equation of the line that has a positive slope and is tangent to the circle $(x-1)^2+(y-1)^2=4$ at one of its y-intercepts.

5. Write the equation of a circle that passes through (2, 8), (5, 7) and (6, 6).

6. Write the equation of a circle that passes through $(-3,-3),(-1,11)$, and $(5,13)$.