

Name \_\_\_\_\_ Due Date: \_\_\_\_\_

### 8.7 Day 2: Completing the Square and Writing Equations of Circles

Complete the square to write the equation of a circle.

1.  $x^2 + y^2 + 4x - 6y = -9$       2.  $x^2 + y^2 - 8x + 4y - 5 = 0$       3.  $x^2 + y^2 + 6x - 2y + 4 = 0$

4.  $x^2 + y^2 - 8x + 12y - 19 = 0$

5.  $x^2 - 2x + y^2 = 15$

6.  $x^2 + y^2 + 6x - 2y = -4$

7.  $x^2 + y^2 - 4y = 21$

8.  $x^2 + y^2 + 10y + 8x + 39 = 0$

9.  $x^2 + 2x + y^2 - 6y - 54 = 0$