CC Geometry HW#_____ Name_____
Worksheet 12-7 B

Date_____Per_____Col____

Use completing the square to rewrite the equation in circle form and find center and radius.

1. $x^2 - 8x + y^2 + 6y = 11$

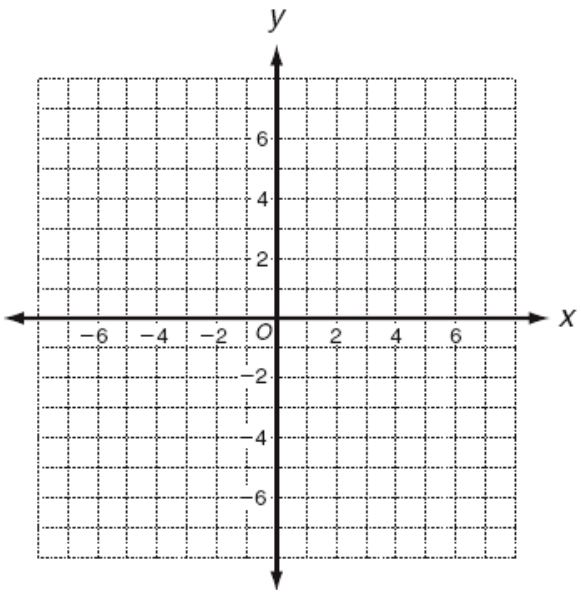
2. $x^2 + 4x + y^2 - 16y = -4$

3. $x^2 + y^2 - 18y = 0$

4. $x^2 + y^2 - 14x + 2y + 10 = 0$

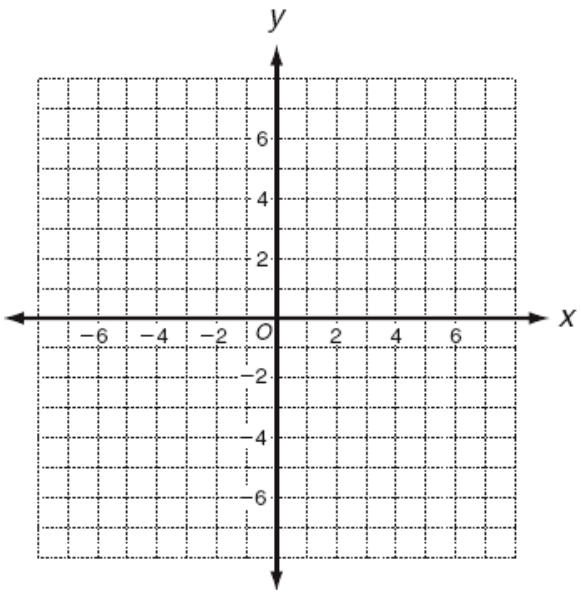
Identify the center and radius the circle and sketch the circle.

5. $(x+3)^2 + (y-2)^2 = 16$



Sketch the circle. Find the radius and write the equation of the circle.

6. circle with center (4, -3) that is tangent to the *y*-axis



Write the equation of each circle.

7. circle with center (-5,0) and radius 12

8. circle that passes through (4, 1) and has center (-2, 9)

9. circle with area 49π and center (8, -2)