

Topic 7.3
Circles
Homework

Name: _____
Date: _____

Write the equation for each circle if the coordinates of the center and length of the radius are given.

1. $(5, 3), r = 3$

2. $(-2, -4), r = -5$

3) $(-7, 6), r = \frac{2}{5}$

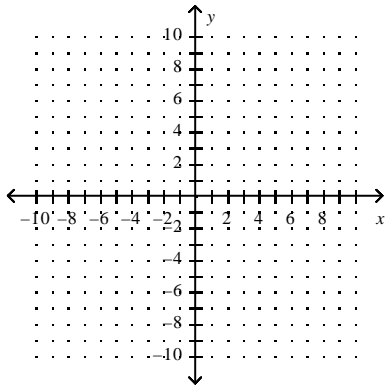
Find the coordinates of the center and the radius of each circle whose equation is given. Then draw the graph.

4) $x^2 + y^2 + 8x + 6y = 4$

5) $x^2 + y^2 - 2x + 4 = -1$

center:

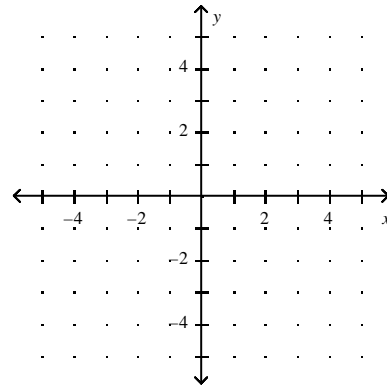
radius:



6) $3x^2 + 3y^2 + 15x - 12y = \frac{3}{4}$

center:

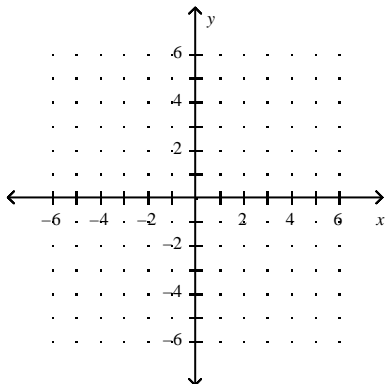
radius:



7) $7x^2 + 7y^2 + 42x + 70y + 63 = 0$

center:

radius:



center:

radius:

