

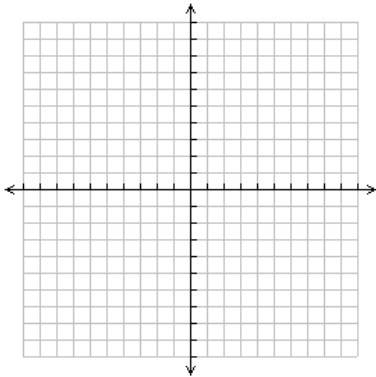
## Assignment 6.5

Identify the center and radius of each. Then sketch the graph.

1.  $(x - 1)^2 + (y + 3)^2 = 4$

Center:

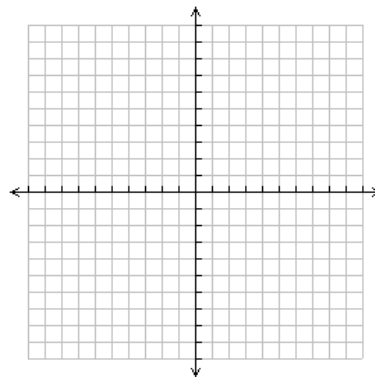
Radius:



2.  $(x - 2)^2 + (y + 1)^2 = 16$

Center:

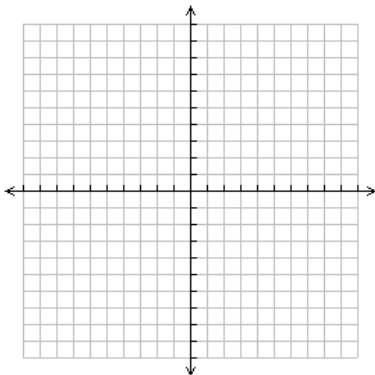
Radius:



3.  $(x + 1)^2 + (y + 4)^2 = 9$

Center:

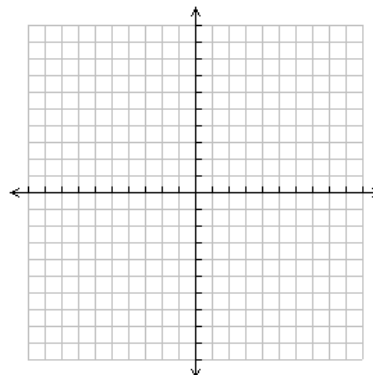
Radius:



4.  $x^2 + (y - 3)^2 = 14$

Center:

Radius:



Write the equation of a circle with the given information.

5. Center:  $(-3, 5)$   
Radius: 4

6. Center:  $(0, 6)$   
Radius:  $\sqrt{3}$

7. Center:  $(7, -4)$   
Radius: 8

8. Center:  $(-1, 0)$   
Radius:  $2\sqrt{3}$

9. Know the unit circle. You will be completing one next class for your test for this unit, rather than doing it on test day.