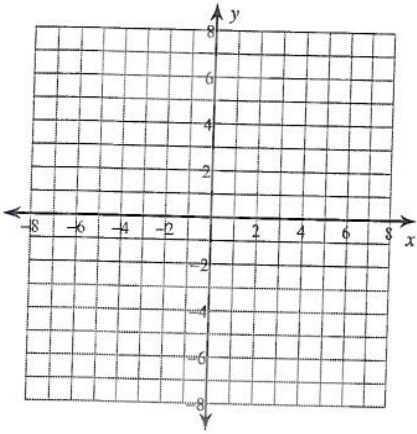


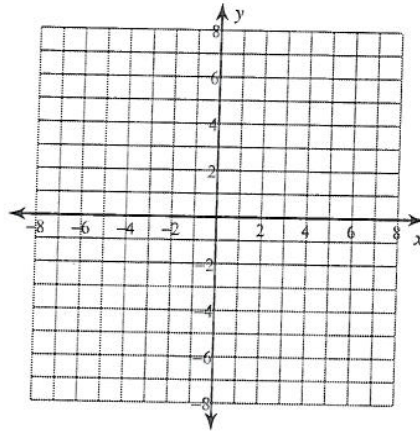
Equations of Circles

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

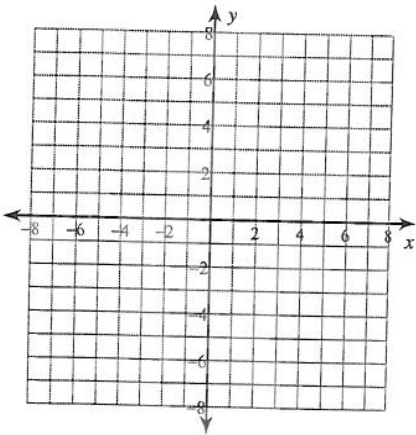
1) $(x - 1)^2 + (y + 3)^2 = 4$



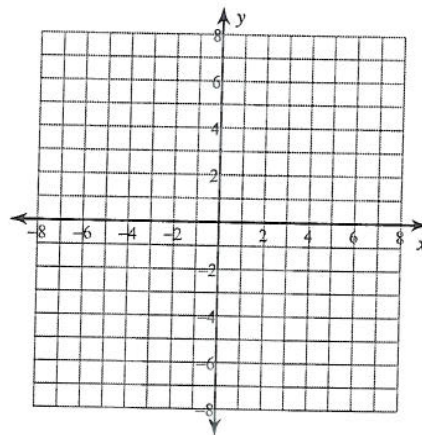
2) $(x - 2)^2 + (y + 1)^2 = 16$



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



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



Use the information provided to write the equation of each circle.

9) Center: $(13, -13)$
 Radius: 4

10) Center: $(-13, -16)$
 Point on Circle: $(-10, -16)$