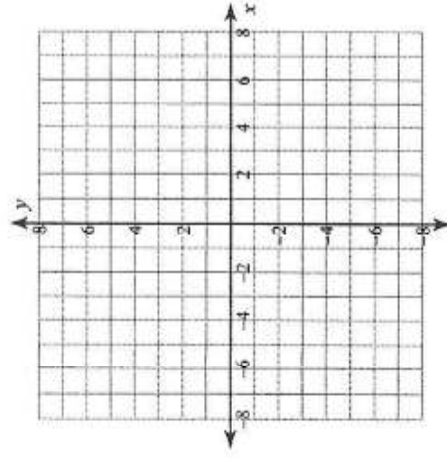


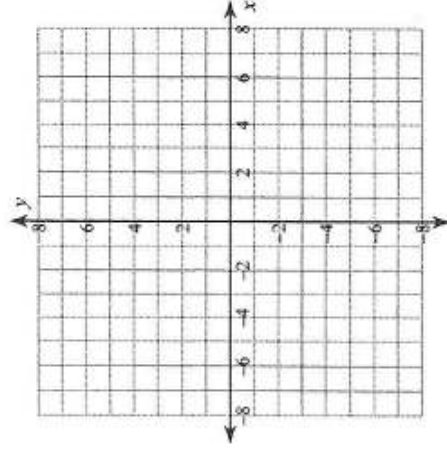
Circles

Graph each equation.

1) $x^2 + y^2 = 3$

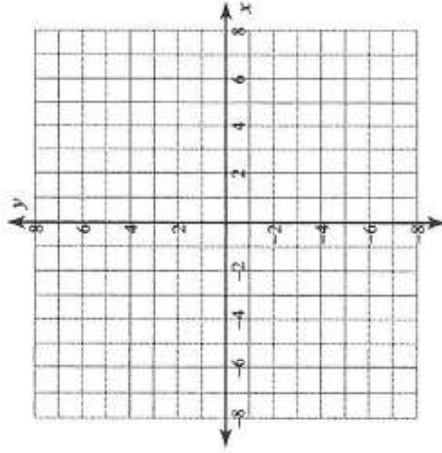


2) $x^2 + y^2 = 24$

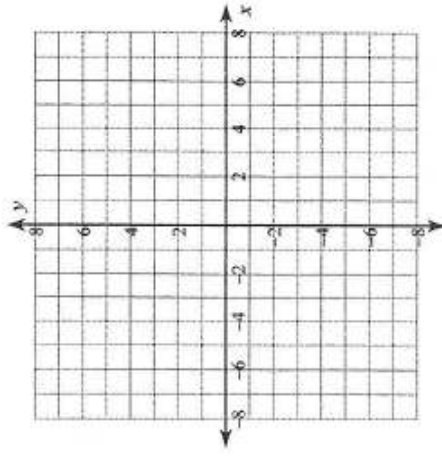


Identify the center and radius of each. Then sketch the graph.

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



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



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

5) Center: $(-8, -9)$
Radius: 6

6) Center: $(1, 13)$
Radius: 4

7) Center: $(4, 4)$
Point on Circle: $(19, 4)$

8) Center: $(0, -10)$
Point on Circle: $(-8, -13)$