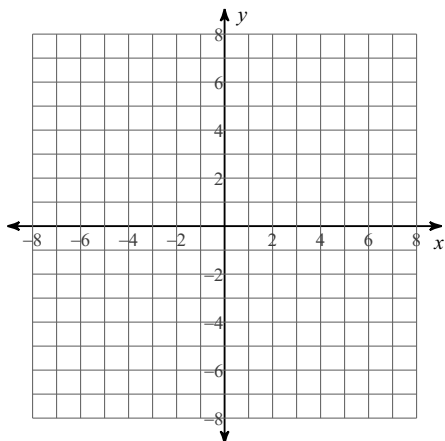


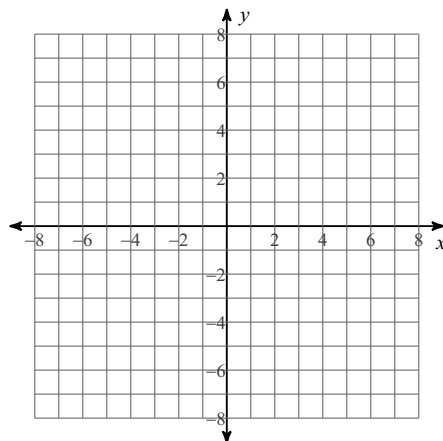
Circle Equation

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

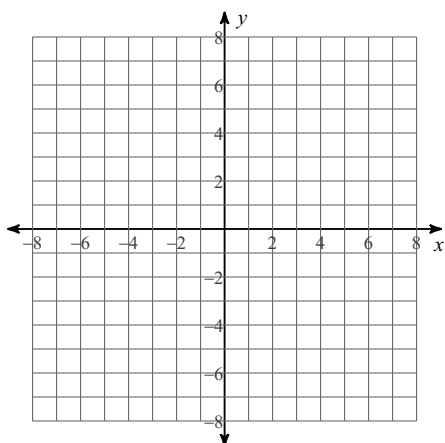
1) $(x + 4)^2 + (y - 3)^2 = 9$



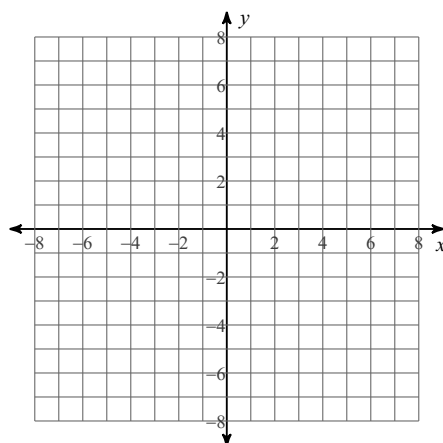
2) $(x + 4)^2 + (y - 2)^2 = 9$



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

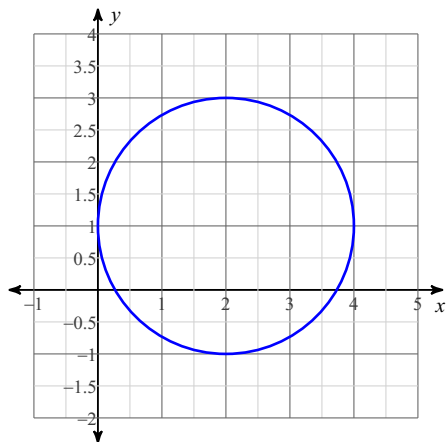


4) $(x - 2)^2 + (y + 3)^2 = 9$

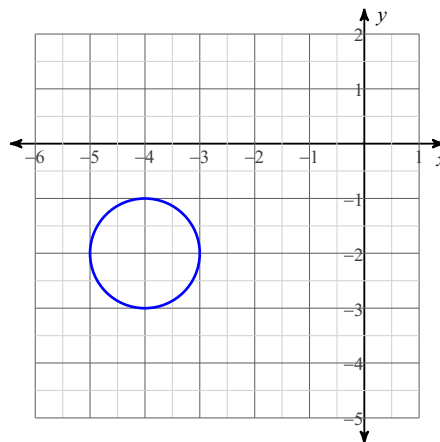


Use the information provided to write the equation of each circle.

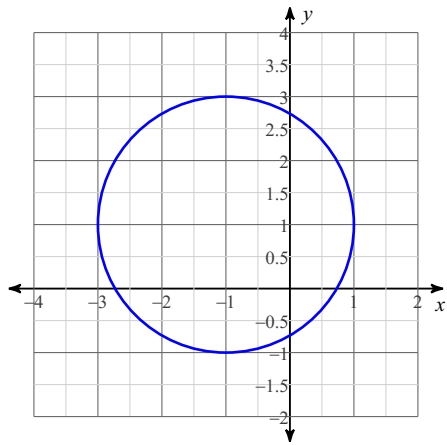
5)



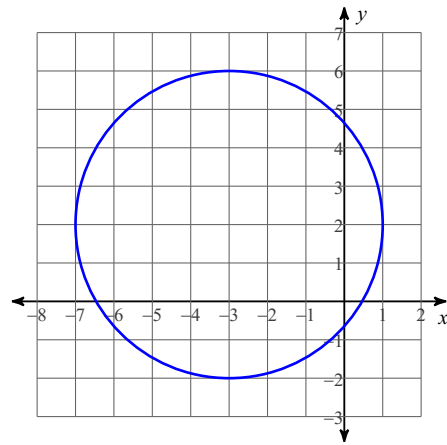
6)



7)



8)



9) Center: $(-15, 5)$
Point on Circle: $(-15, 8)$

10) Center: $(14, 9)$
Point on Circle: $(14, 10)$

11) Ends of a diameter: $(2, -9)$ and $(4, -11)$

12) Ends of a diameter: $(8, 11)$ and $(-11, -2)$