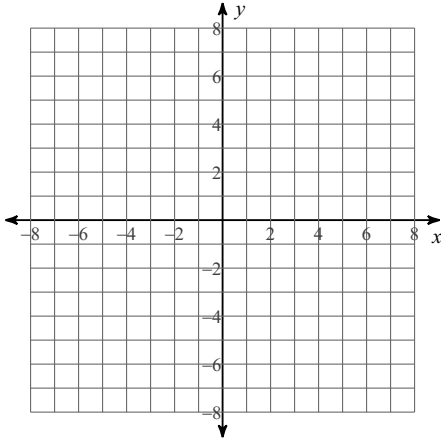


Graphing Circles

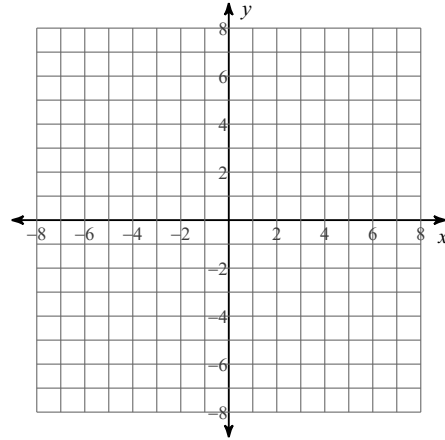
Date _____ Period _____

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

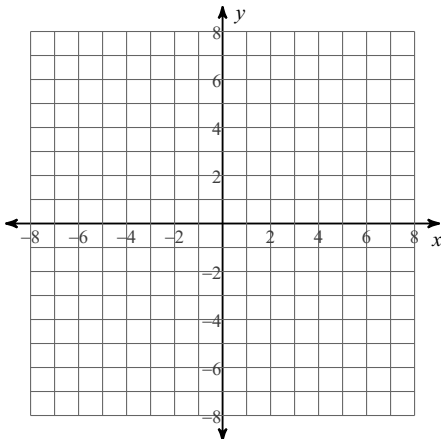
1) $x^2 + y^2 = 16$



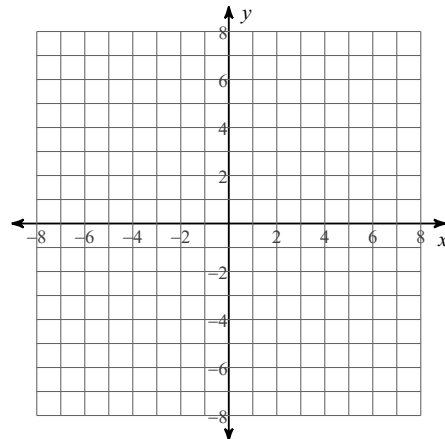
2) $x^2 + y^2 = 36$



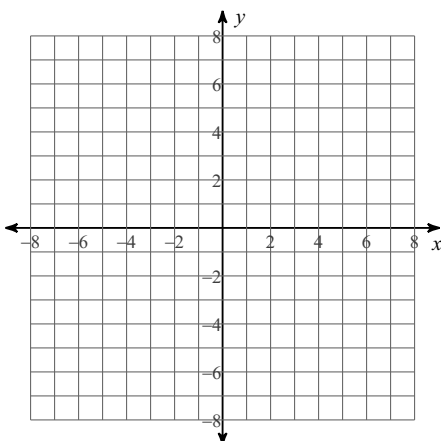
3) $(x + 2)^2 + (y + 1)^2 = 4$



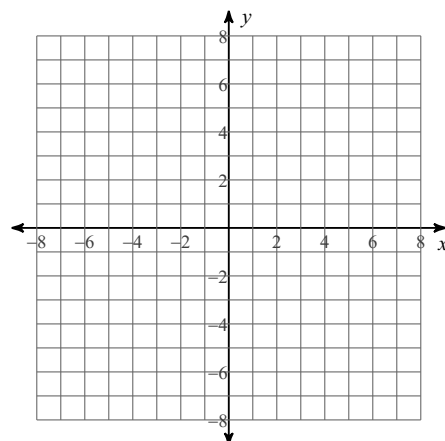
4) $(x + 2)^2 + (y - 4)^2 = 9$



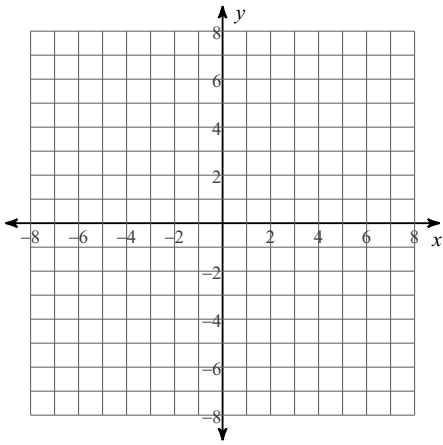
5) $(x - 2)^2 + (y + 1)^2 = 1$



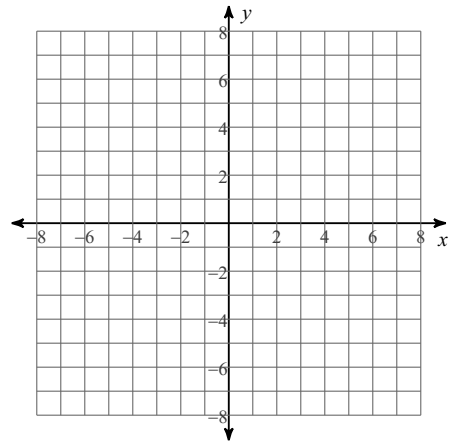
6) $(x - 1)^2 + (y + 2)^2 = 7$



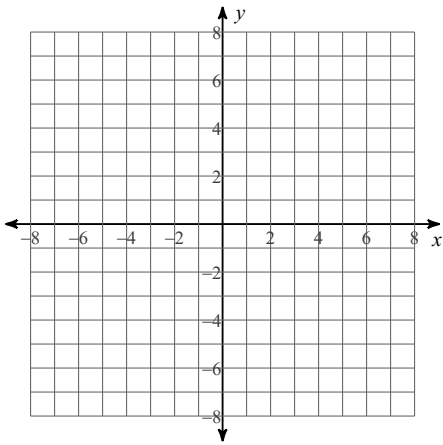
$$7) x^2 + y^2 - 6x - 8y + 16 = 0$$



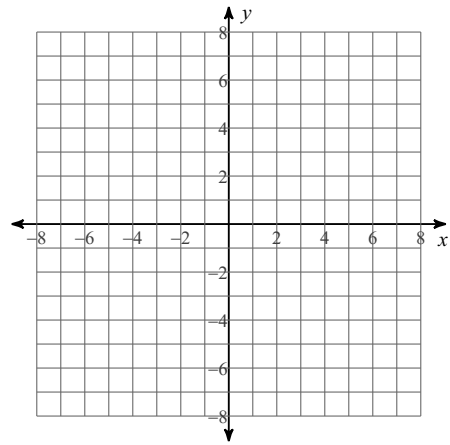
$$8) x^2 + y^2 - 2y - 3 = 0$$



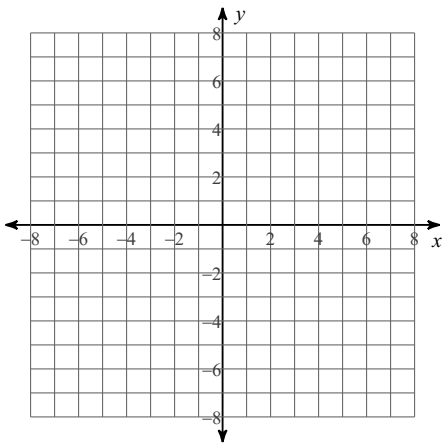
$$9) x^2 + y^2 - 2x - 4y + 1 = 0$$



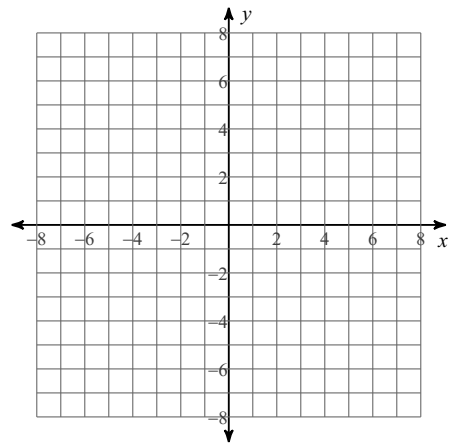
$$10) x^2 + y^2 + 8x - 4y + 19 = 0$$



$$11) x^2 + y^2 - 2y - 24 = 0$$



$$12) x^2 + y^2 + 2x - 35 = 0$$

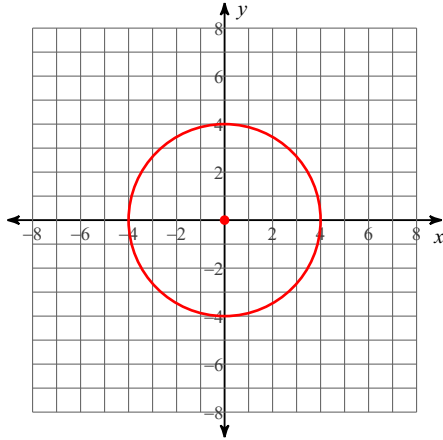


Graphing Circles

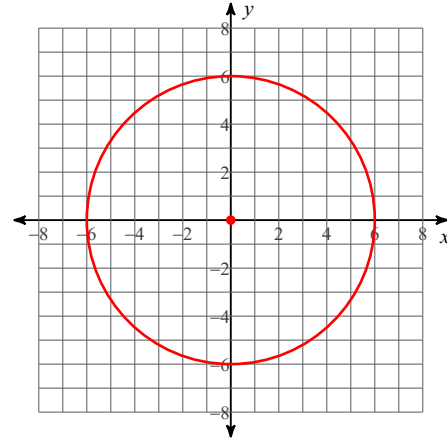
Date _____ Period _____

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

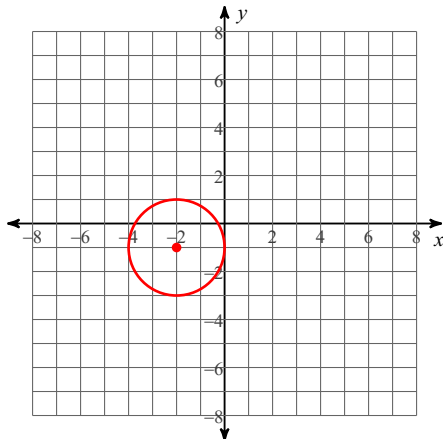
1) $x^2 + y^2 = 16$

Center: (0, 0)
Radius: 4

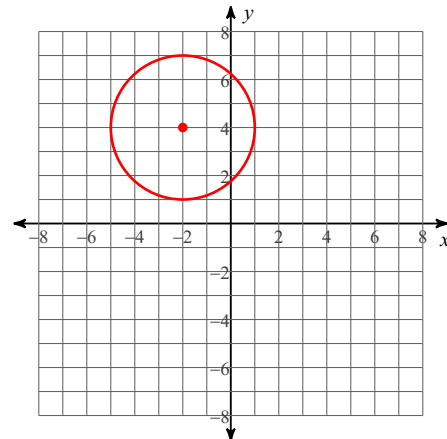
2) $x^2 + y^2 = 36$

Center: (0, 0)
Radius: 6

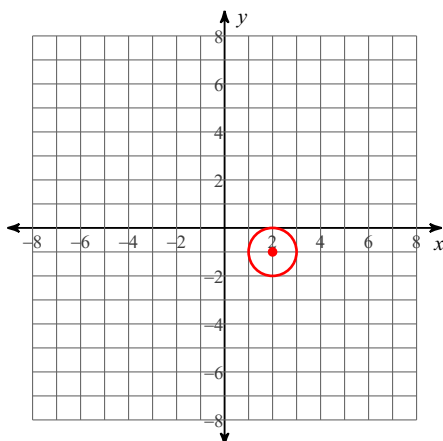
3) $(x + 2)^2 + (y + 1)^2 = 4$

Center: (-2, -1)
Radius: 2

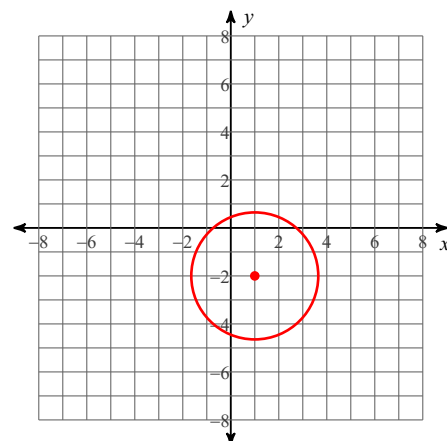
4) $(x + 2)^2 + (y - 4)^2 = 9$

Center: (-2, 4)
Radius: 3

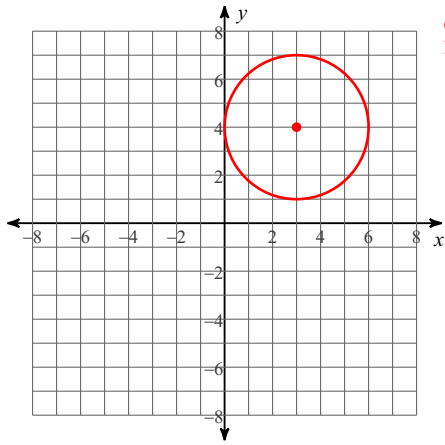
5) $(x - 2)^2 + (y + 1)^2 = 1$

Center: (2, -1)
Radius: 1

6) $(x - 1)^2 + (y + 2)^2 = 7$

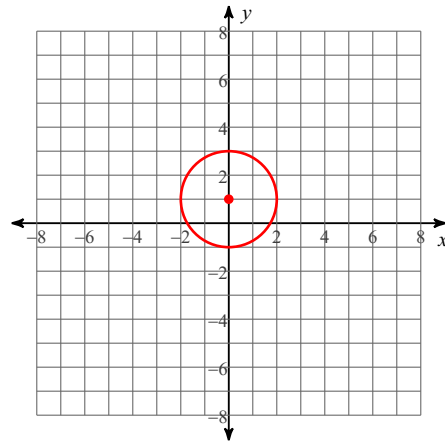
Center: (1, -2)
Radius: $\sqrt{7}$

7) $x^2 + y^2 - 6x - 8y + 16 = 0$



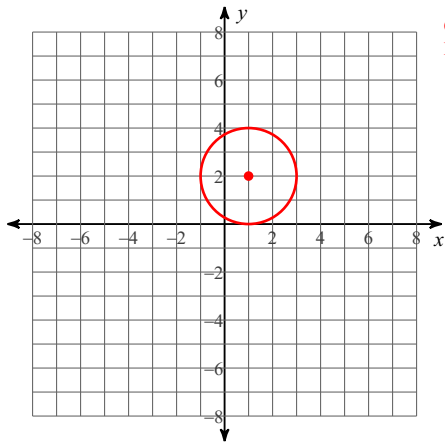
Center: (3, 4)
Radius: 3

8) $x^2 + y^2 - 2y - 3 = 0$



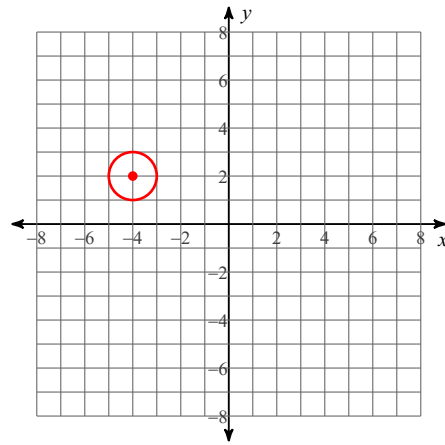
Center: (0, 1)
Radius: 2

9) $x^2 + y^2 - 2x - 4y + 1 = 0$



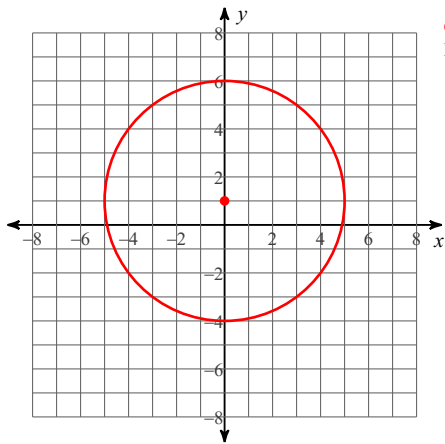
Center: (1, 2)
Radius: 2

10) $x^2 + y^2 + 8x - 4y + 19 = 0$



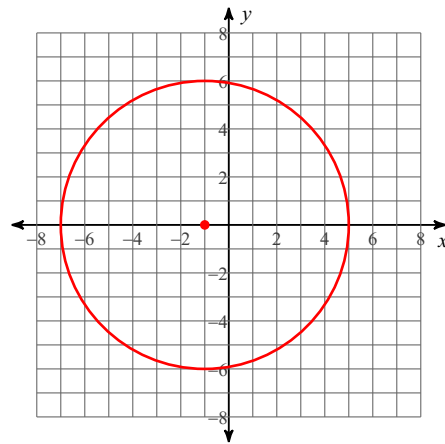
Center: (-4, 2)
Radius: 1

11) $x^2 + y^2 - 2y - 24 = 0$



Center: (0, 1)
Radius: 5

12) $x^2 + y^2 + 2x - 35 = 0$



Center: (-1, 0)
Radius: 6