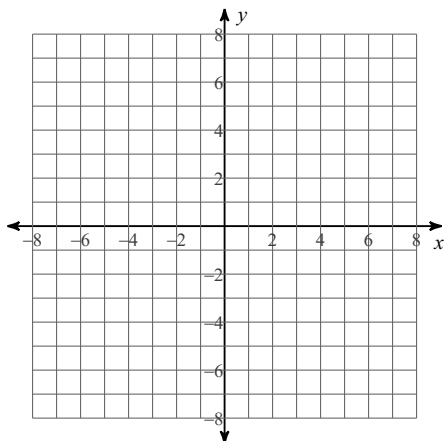


Graphing Circles day 2

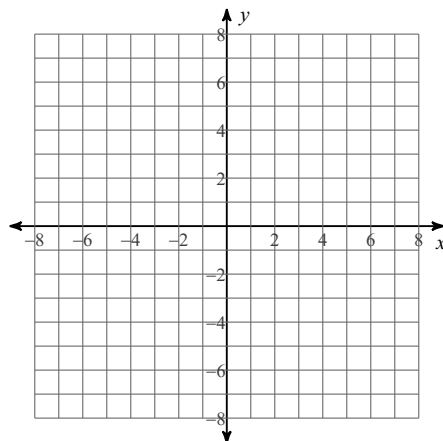
Date _____ Period _____

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

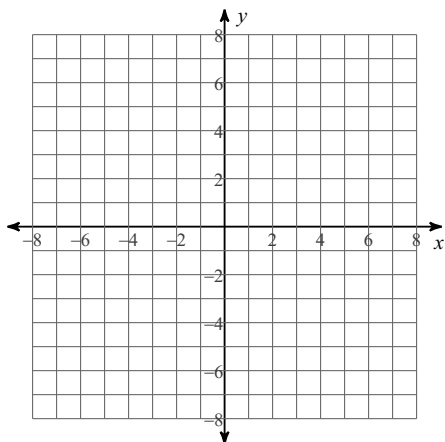
1) $(x - 2)^2 + (y + 3)^2 = 9$



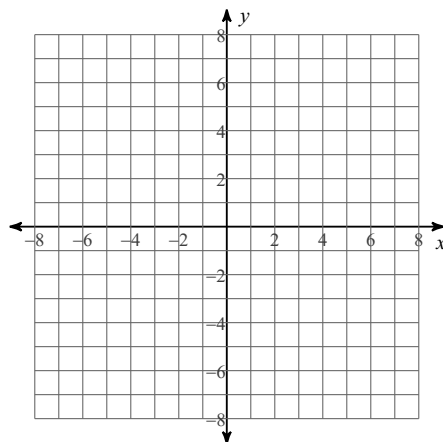
2) $(x - 4)^2 + (y + 3)^2 = 1$



3) $x^2 + y^2 - 4x - 2y - 11 = 0$



4) $x^2 + y^2 - 2y - 15 = 0$

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

5) Center: $(-4, 11)$

Point on Circle: $(-4, 17)$

6) Center: $(2, -3)$

Point on Circle: $(13, -6)$

7) Center: $(-17, -9)$

Point on Circle: $(-16, -8)$

8) Center: $(16, -11)$

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

9) Center: $(-14, 8)$

Point on Circle: $(-10, 8)$

10) Center: $(6, -17)$

Point on Circle: $(8, -17)$

11) Center: $(-9, -15)$

Point on Circle: $(-5, -15)$

12) Center: $(-2, -13)$

Point on Circle: $(3, -14)$

13) Center: $(-16, -1)$

Point on Circle: $(-15, -1)$

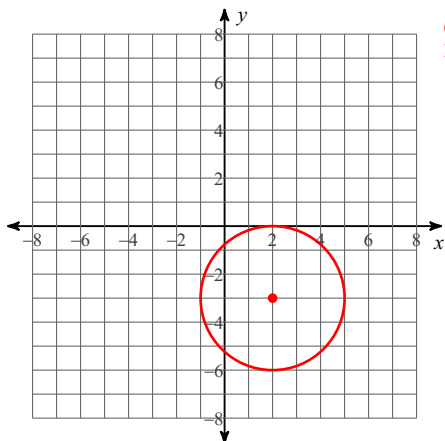
14) Center: $(15, 10)$

Point on Circle: $(14, 13)$

Graphing Circles day 2

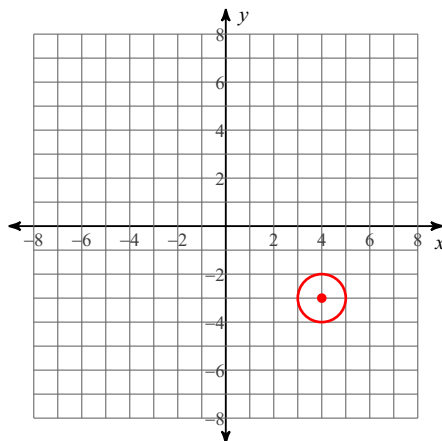
Identify the center and radius of each. Then sketch the graph.

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



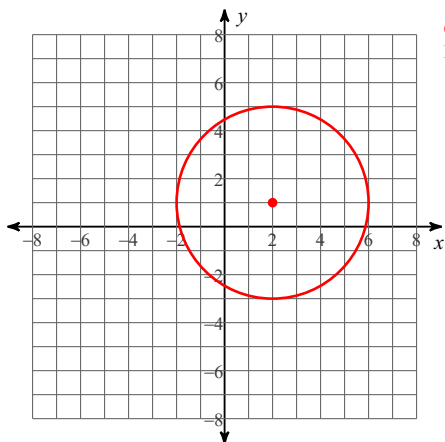
Center: (2, -3)
Radius: 3

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



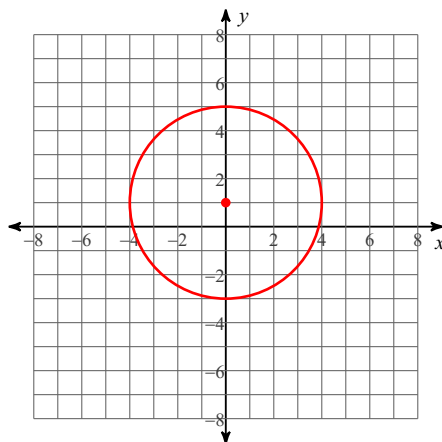
Center: (4, -3)
Radius: 1

3) $x^2 + y^2 - 4x - 2y - 11 = 0$



Center: (2, 1)
Radius: 4

4) $x^2 + y^2 - 2y - 15 = 0$



Center: (0, 1)
Radius: 4

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

5) Center: (-4, 11) $(x + 4)^2 + (y - 11)^2 = 36$ 6) Center: (2, -3) $(x - 2)^2 + (y + 3)^2 = 130$
Point on Circle: (-4, 17) Point on Circle: (13, -6)

7) Center: (-17, -9) $(x + 17)^2 + (y + 9)^2 = 2$ 8) Center: (16, -11) $(x - 16)^2 + (y + 11)^2 = 4$
Point on Circle: (-16, -8) Point on Circle: (16, -13)

9) Center: (-14, 8) $(x + 14)^2 + (y - 8)^2 = 16$ 10) Center: (6, -17) $(x - 6)^2 + (y + 17)^2 = 4$
Point on Circle: (-10, 8) Point on Circle: (8, -17)

11) Center: (-9, -15) $(x + 9)^2 + (y + 15)^2 = 16$ 12) Center: (-2, -13) $(x + 2)^2 + (y + 13)^2 = 26$
Point on Circle: (-5, -15) Point on Circle: (3, -14)

13) Center: (-16, -1) $(x + 16)^2 + (y + 1)^2 = 11$ 14) Center: (15, 10) $(x - 15)^2 + (y - 10)^2 = 10$
Point on Circle: (-15, -1) Point on Circle: (14, 13)