

7.3 - PRACTICE - Changing Forms of Equations

Date _____

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

1) $(x - 14)^2 + (y + 12)^2 = 16$

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

3) $(x - 10)^2 + (y - 7)^2 = 49$

4) $(x - 12)^2 + (y + 5)^2 = 25$

5) $(x + 8)^2 + (y + 10)^2 = 30$

6) $(x - 10)^2 + (y - 4)^2 = 6$

7) $(x - 7)^2 + (y - 11)^2 = 49$

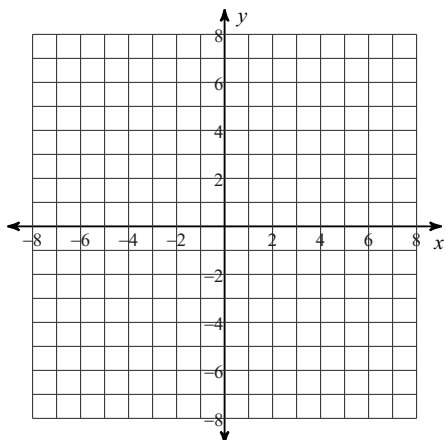
8) $(x - 6)^2 + (y - 10)^2 = 64$

9) $(x + 3)^2 + (y + 10)^2 = 11$

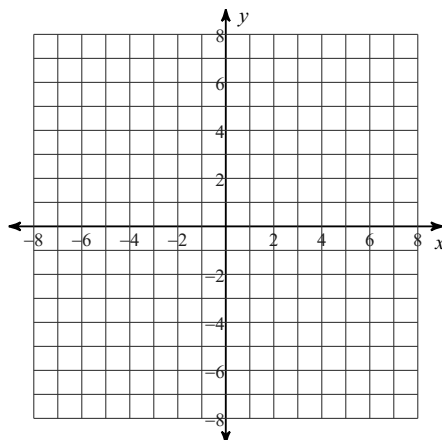
10) $(x - 15)^2 + (y + 8)^2 = 4$

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

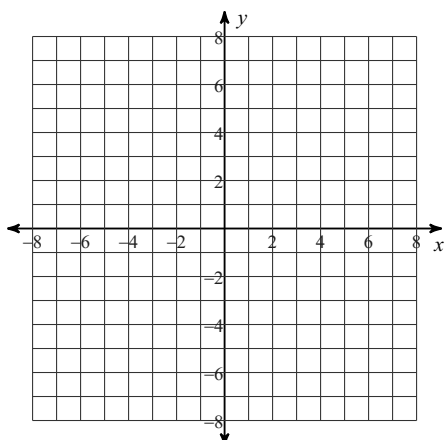
11) $x^2 + y^2 - 2x - 8y + 13 = 0$



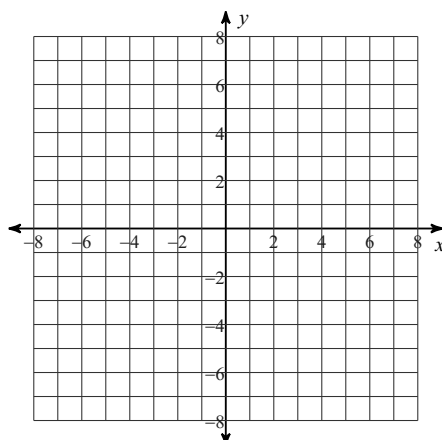
12) $x^2 + y^2 - 4x - 4y - 17 = 0$



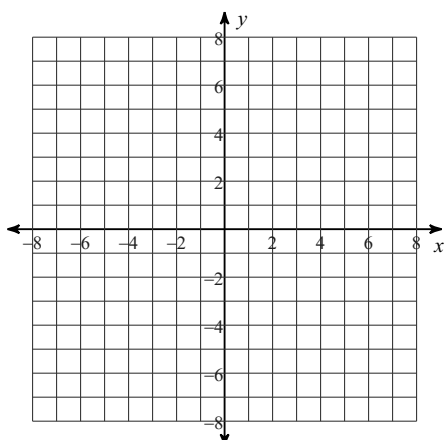
13) $x^2 + y^2 + 6x + 4y - 3 = 0$



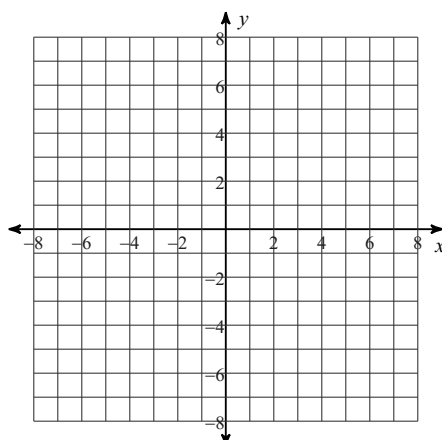
14) $x^2 + y^2 - 8x - 2y + 16 = 0$



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



16) $x^2 + y^2 - 4x + 8y + 11 = 0$



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

1) $(x - 14)^2 + (y + 12)^2 = 16$

$$x^2 + y^2 - 28x + 24y + 324 = 0$$

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

$$x^2 + y^2 - 4x - 32y + 256 = 0$$

3) $(x - 10)^2 + (y - 7)^2 = 49$

$$x^2 + y^2 - 20x - 14y + 100 = 0$$

4) $(x - 12)^2 + (y + 5)^2 = 25$

$$x^2 + y^2 - 24x + 10y + 144 = 0$$

5) $(x + 8)^2 + (y + 10)^2 = 30$

$$x^2 + y^2 + 16x + 20y + 134 = 0$$

6) $(x - 10)^2 + (y - 4)^2 = 6$

$$x^2 + y^2 - 20x - 8y + 110 = 0$$

7) $(x - 7)^2 + (y - 11)^2 = 49$

$$x^2 + y^2 - 14x - 22y + 121 = 0$$

8) $(x - 6)^2 + (y - 10)^2 = 64$

$$x^2 + y^2 - 12x - 20y + 72 = 0$$

9) $(x + 3)^2 + (y + 10)^2 = 11$

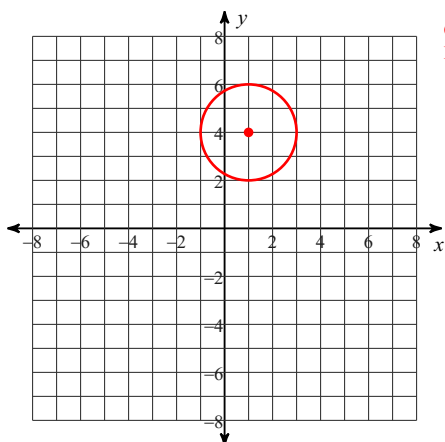
$$x^2 + y^2 + 6x + 20y + 98 = 0$$

10) $(x - 15)^2 + (y + 8)^2 = 4$

$$x^2 + y^2 - 30x + 16y + 285 = 0$$

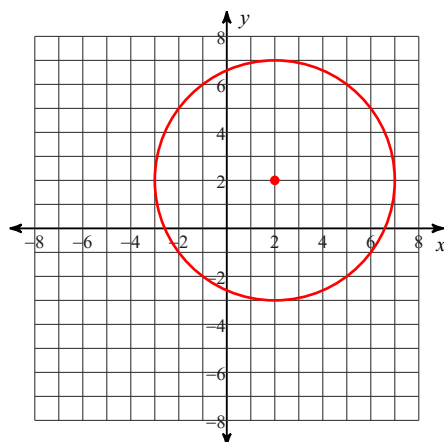
Identify the center and radius of each. Then sketch the graph.

11) $x^2 + y^2 - 2x - 8y + 13 = 0$



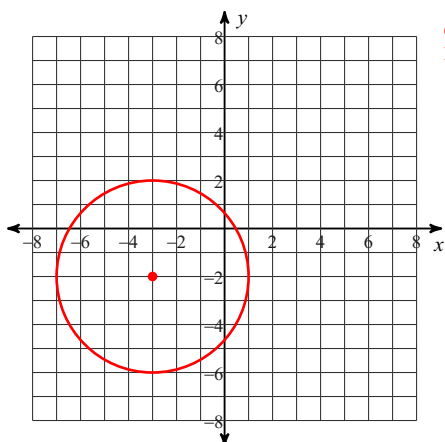
Center: (1, 4)
Radius: 2

12) $x^2 + y^2 - 4x - 4y - 17 = 0$



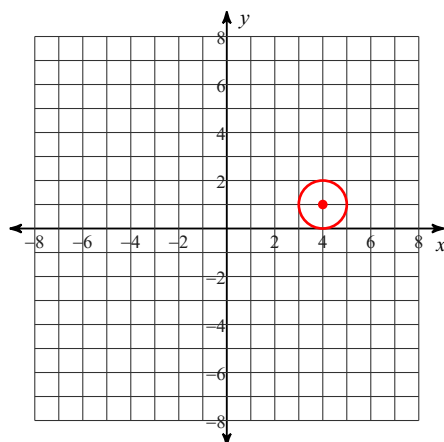
Center: (2, 2)
Radius: 5

13) $x^2 + y^2 + 6x + 4y - 3 = 0$



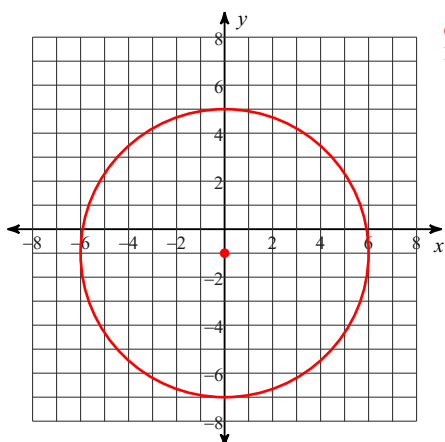
Center: (-3, -2)
Radius: 4

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



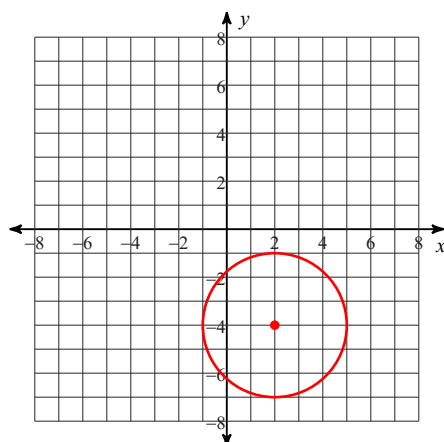
Center: (4, 1)
Radius: 1

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



Center: (0, -1)
Radius: 6

16) $x^2 + y^2 - 4x + 8y + 11 = 0$



Center: (2, -4)
Radius: 3