

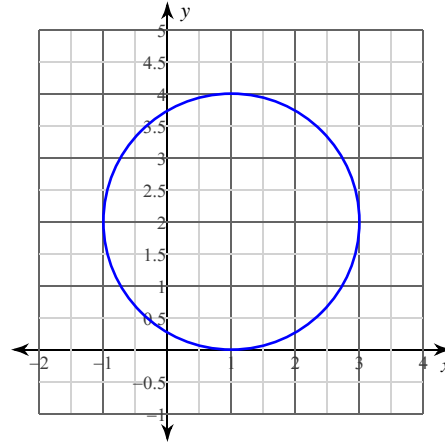
HW #23 Examples - Circles

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

- 1) Center: (13, 15)
 Radius: 1

- A) $(x - 15)^2 + (y + 13)^2 = 1$
- B) $(x - 13)^2 + (y - 15)^2 = 1$
- C) $(x - 17)^2 + (y + 12)^2 = 9$
- D) $(x - 13)^2 + (y - 15)^2 = 9$

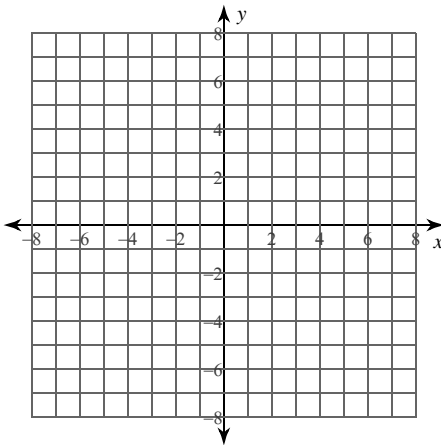
2)



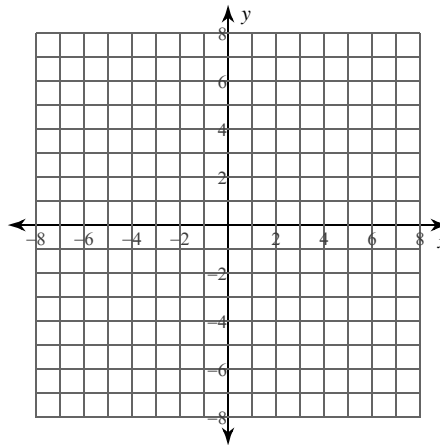
- A) $(x - 1)^2 + (y - 2)^2 = 16$
- B) $(x + 1)^2 + (y - 2)^2 = 16$
- C) $(x - 1)^2 + y^2 = 4$
- D) $(x - 1)^2 + (y - 2)^2 = 4$

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

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



4) $x^2 + y^2 - 2x + 2y - 23 = 0$



HW #23 Examples - Circles

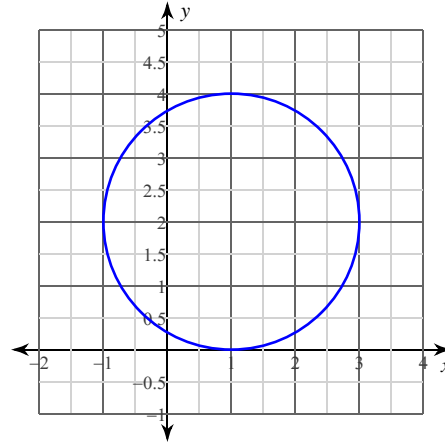
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Radius: 1

- A) $(x - 15)^2 + (y + 13)^2 = 1$
- *B) $(x - 13)^2 + (y - 15)^2 = 1$
- C) $(x - 17)^2 + (y + 12)^2 = 9$
- D) $(x - 13)^2 + (y - 15)^2 = 9$

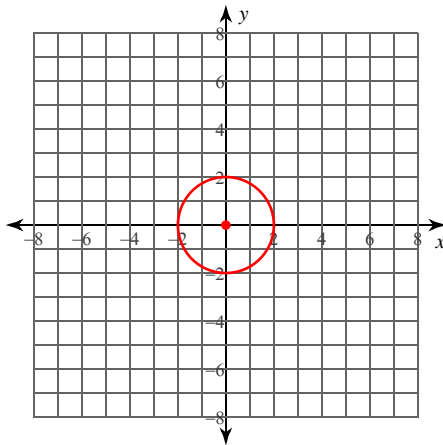
2)



- A) $(x - 1)^2 + (y - 2)^2 = 16$
- B) $(x + 1)^2 + (y - 2)^2 = 16$
- C) $(x - 1)^2 + y^2 = 4$
- *D) $(x - 1)^2 + (y - 2)^2 = 4$

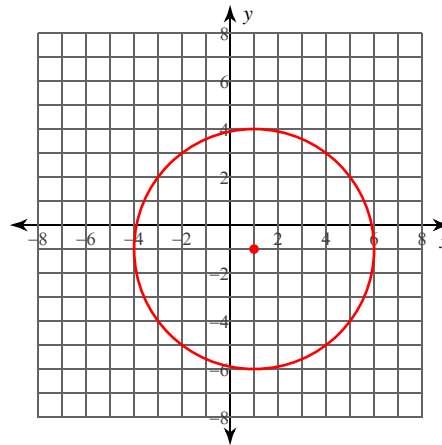
Identify the center and radius of each. Then sketch the graph.

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



Center: (0, 0)
Radius: 2

4) $x^2 + y^2 - 2x + 2y - 23 = 0$



Center: (1, -1)
Radius: 5

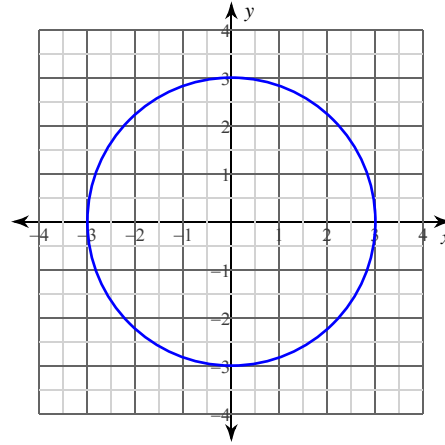
HW #23 Examples - Circles

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

- 1) Center: $(10, -13)$
 Radius: 5

- A) $(x - 10)^2 + (y + 13)^2 = 25$
- B) $(x - 13)^2 + (y - 10)^2 = 625$
- C) $(x + 15)^2 + (y + 10)^2 = 25$
- D) $(x + 10)^2 + (y - 13)^2 = 625$

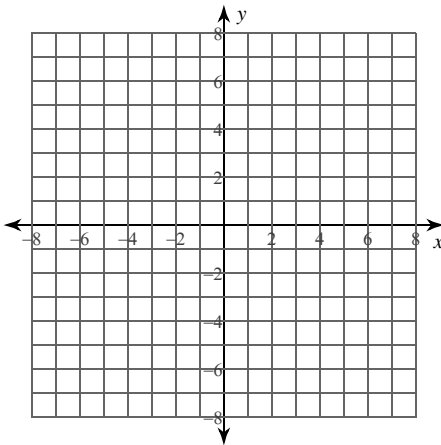
2)



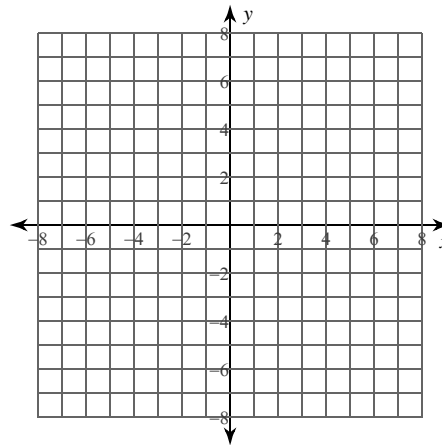
- A) $(x - 1)^2 + (y + 2)^2 = 9$
- B) $x^2 + y^2 = 9$
- C) $(x - 1)^2 + (y - 1)^2 = 9$
- D) $x^2 + (y + 2)^2 = 9$

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

3) $x^2 + y^2 - 25 = 0$



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



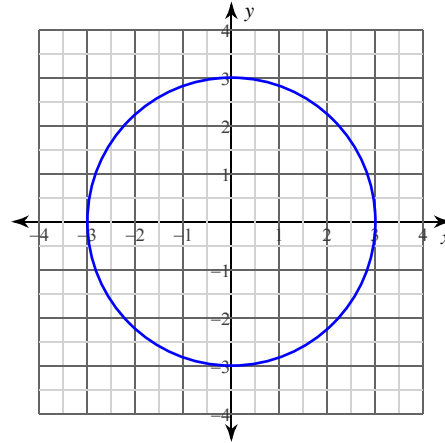
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- D) $(x + 10)^2 + (y - 13)^2 = 625$

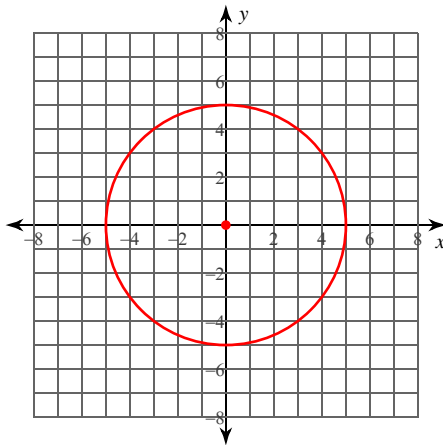
2)



- A) $(x - 1)^2 + (y + 2)^2 = 9$
- *B) $x^2 + y^2 = 9$
- C) $(x - 1)^2 + (y - 1)^2 = 9$
- D) $x^2 + (y + 2)^2 = 9$

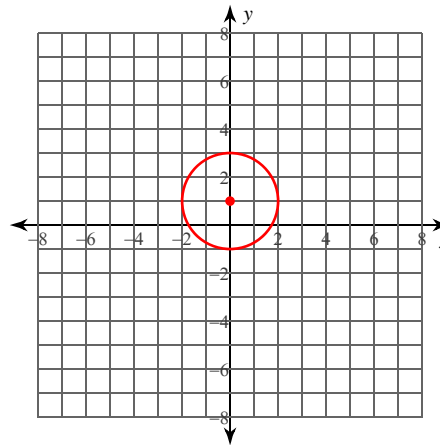
Identify the center and radius of each. Then sketch the graph.

3) $x^2 + y^2 - 25 = 0$



Center: $(0, 0)$
 Radius: 5

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



Center: $(0, 1)$
 Radius: 2

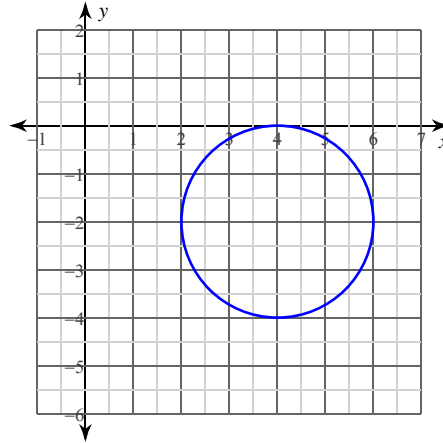
HW #23 Examples - Circles

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

- 1) Center: $(-15, 2)$
 Radius: 2

- A) $(x + 15)^2 + (y - 2)^2 = 4$
- B) $(x - 14)^2 + (y - 4)^2 = 4$
- C) $(x - 1)^2 + (y - 17)^2 = 4$
- D) $(x - 15)^2 + (y + 2)^2 = 4$

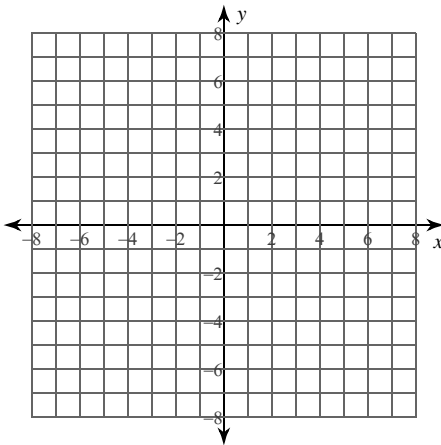
2)



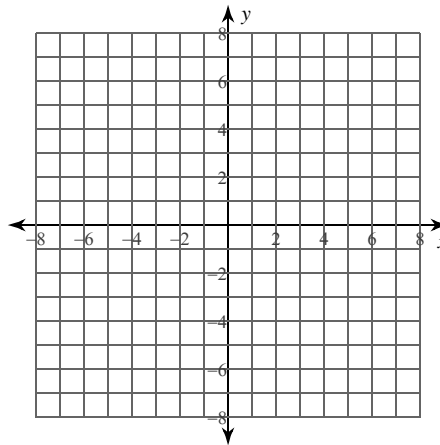
- A) $(x - 4)^2 + (y + 2)^2 = 16$
- B) $(x - 4)^2 + (y + 2)^2 = 4$
- C) $(x + 5)^2 + (y - 2)^2 = 16$
- D) $(x - 2)^2 + (y + 4)^2 = 4$

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

3) $x^2 + y^2 - 31 = 0$



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



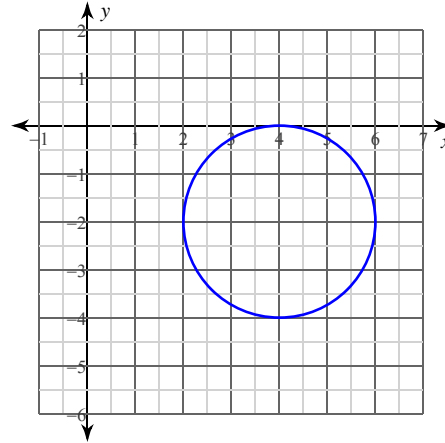
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- B) $(x - 14)^2 + (y - 4)^2 = 4$
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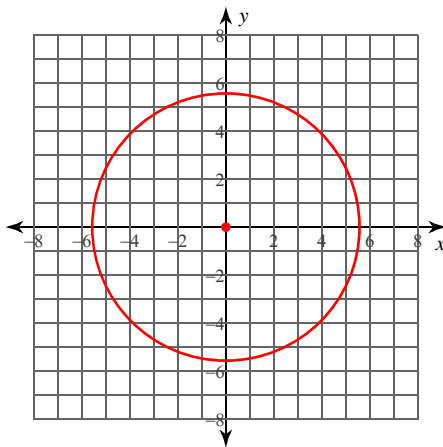
2)



- A) $(x - 4)^2 + (y + 2)^2 = 16$
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- C) $(x + 5)^2 + (y - 2)^2 = 16$
- D) $(x - 2)^2 + (y + 4)^2 = 4$

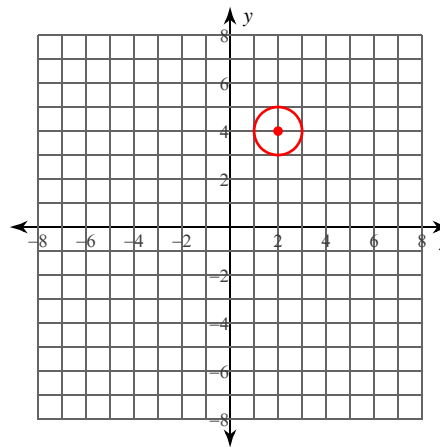
Identify the center and radius of each. Then sketch the graph.

3) $x^2 + y^2 - 31 = 0$



Center: $(0, 0)$
 Radius: $\sqrt{31}$

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



Center: $(2, 4)$
 Radius: 1