

cw/hw - Equations of Circles in Standard Form

Identify the center and radius of each.

1) $(x - 13)^2 + (y + 1)^2 = 25$

2) $(x + 6)^2 + (y + 15)^2 = 4$

3) $(x + 11)^2 + (y + 7)^2 = 16$

4) $(x - 15)^2 + (y + 10)^2 = 16$

5) $(x + 8)^2 + (y - 5)^2 = 90$

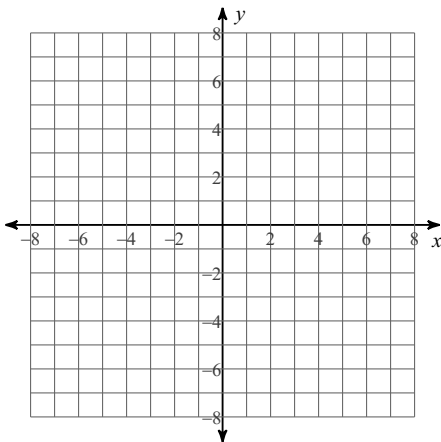
6) $x^2 + (y - 11)^2 = 36$

7) $(x + 9)^2 + (y - 2)^2 = 25$

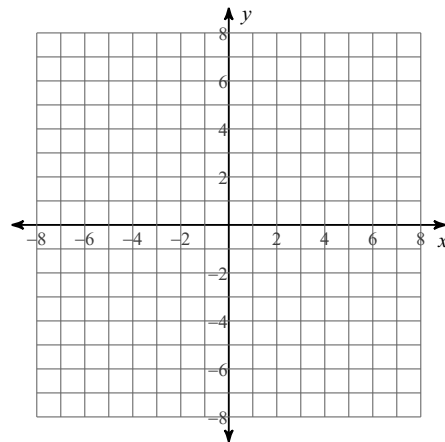
8) $(x - 4)^2 + (y - 4)^2 = 90$

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

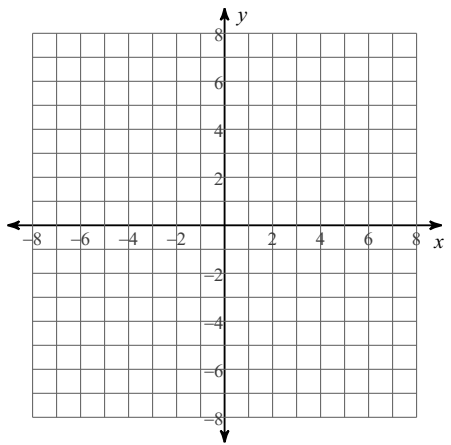
9) $(x - 4)^2 + (y - 1)^2 = 4$



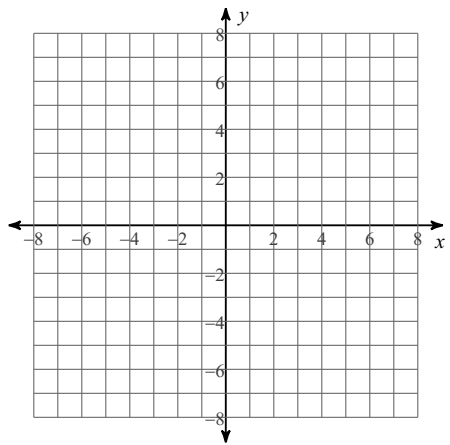
10) $(x + 1)^2 + (y - 4)^2 = 5$



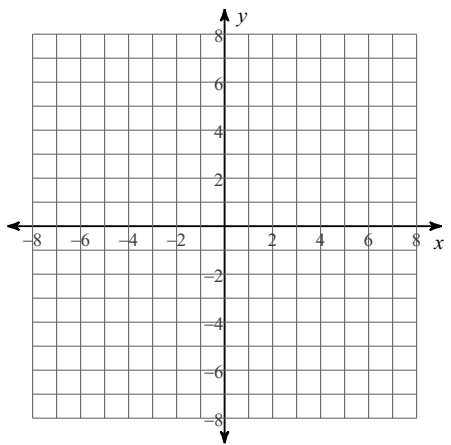
11) $(x + 1)^2 + y^2 = 16$



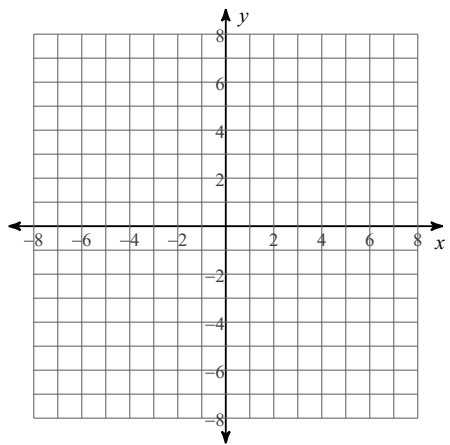
12) $(x - 1)^2 + (y - 3)^2 = 7$



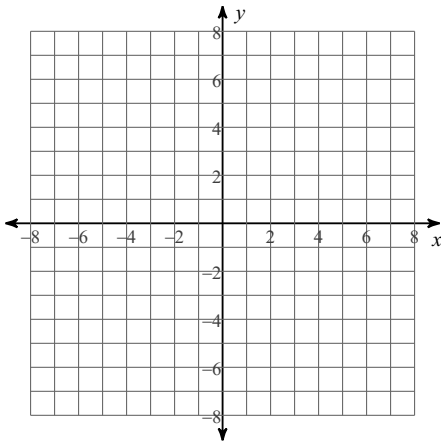
13) $(x - 3)^2 + (y - 2)^2 = 16$



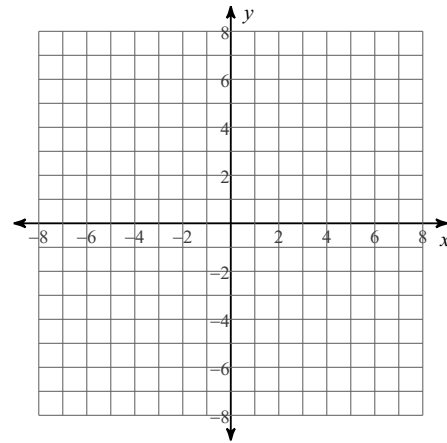
14) $(x - 2)^2 + (y - 4)^2 = 1$



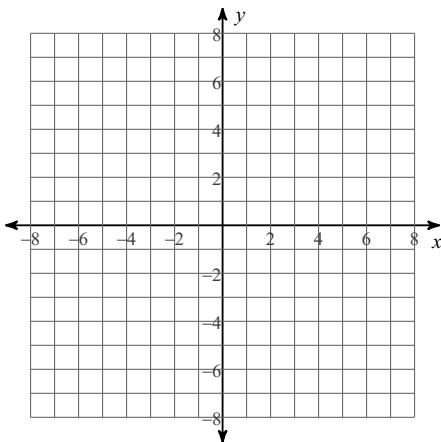
$$15) x^2 + (y + 4)^2 = 4$$



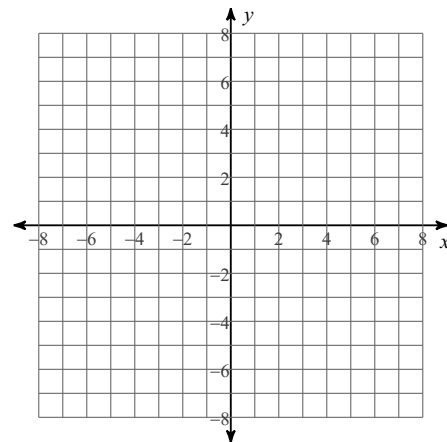
$$16) (x - 1)^2 + y^2 = 18$$



$$17) x^2 + (y + 4)^2 = 9$$



$$18) (x - 2)^2 + (y + 1)^2 = 25$$



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

19) Center: $(-9, -15)$
 Radius: 2

20) Center: $(15, 4)$
 Radius: $2\sqrt{2}$

21) Center: $(-13, -2)$
Radius: $\sqrt{13}$

22) Center: $(15, 0)$
Radius: 2

23) Center: $(-6, -1)$
Radius: $\sqrt{141}$

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

25) Center: $(-10, -10)$
Radius: $4\sqrt{5}$

26) Center: $(-7, -9)$
Radius: 6

27) Center: $(0, 14)$
Radius: 5

28) Center: $(1, 6)$
Radius: $\sqrt{78}$

29) Center: $(16, 4)$
Radius: $\sqrt{5}$

30) Center: $(7, -10)$
Radius: 3

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Identify the center and radius of each.

1) $(x - 13)^2 + (y + 1)^2 = 25$

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

2) $(x + 6)^2 + (y + 15)^2 = 4$

Center: $(-6, -15)$
 Radius: 2

3) $(x + 11)^2 + (y + 7)^2 = 16$

Center: $(-11, -7)$
 Radius: 4

4) $(x - 15)^2 + (y + 10)^2 = 16$

Center: $(15, -10)$
 Radius: 4

5) $(x + 8)^2 + (y - 5)^2 = 90$

Center: $(-8, 5)$
 Radius: $3\sqrt{10}$

6) $x^2 + (y - 11)^2 = 36$

Center: $(0, 11)$
 Radius: 6

7) $(x + 9)^2 + (y - 2)^2 = 25$

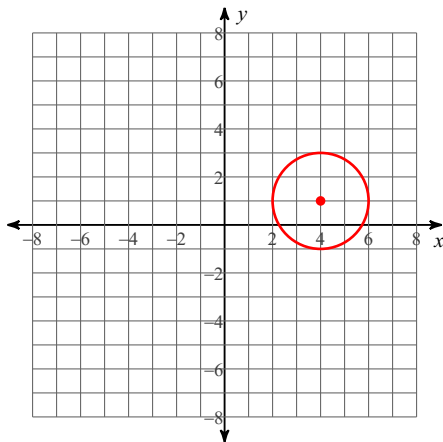
Center: $(-9, 2)$
 Radius: 5

8) $(x - 4)^2 + (y - 4)^2 = 90$

Center: $(4, 4)$
 Radius: $3\sqrt{10}$

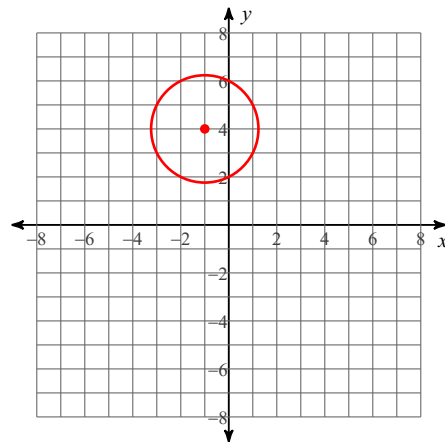
Identify the center and radius of each. Then sketch the graph.

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



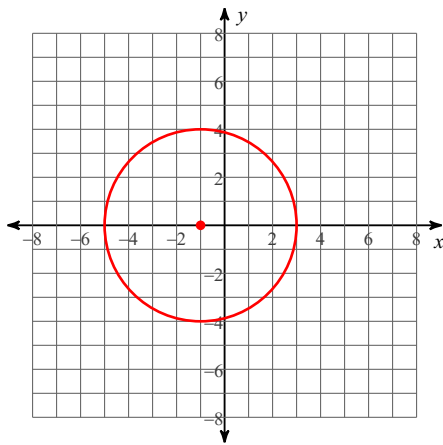
Center: $(4, 1)$
 Radius: 2

10) $(x + 1)^2 + (y - 4)^2 = 5$



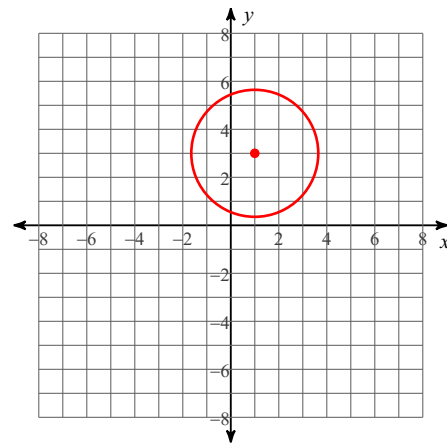
Center: $(-1, 4)$
 Radius: $\sqrt{5}$

$$11) (x + 1)^2 + y^2 = 16$$



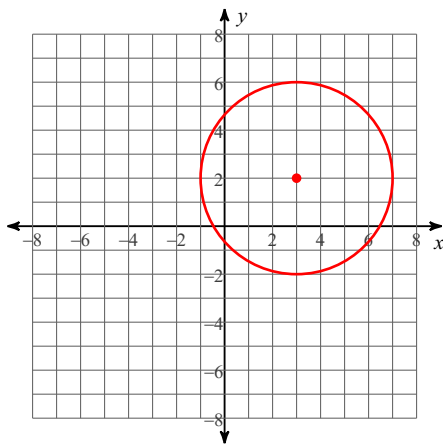
Center: $(-1, 0)$
Radius: 4

$$12) (x - 1)^2 + (y - 3)^2 = 7$$



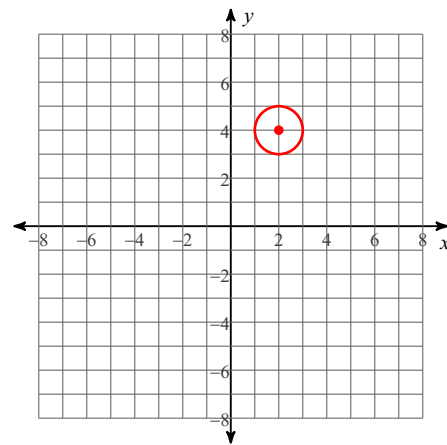
Center: $(1, 3)$
Radius: $\sqrt{7}$

$$13) (x - 3)^2 + (y - 2)^2 = 16$$



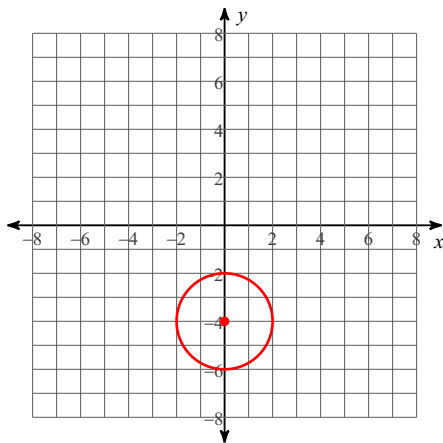
Center: $(3, 2)$
Radius: 4

$$14) (x - 2)^2 + (y - 4)^2 = 1$$



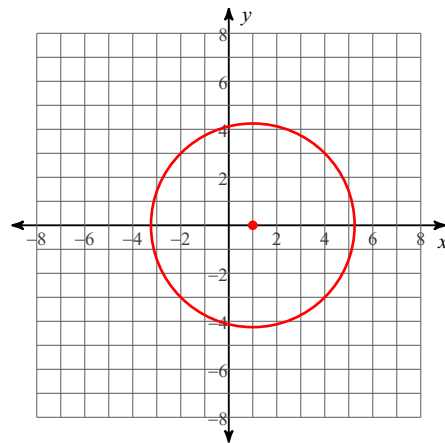
Center: $(2, 4)$
Radius: 1

$$15) x^2 + (y + 4)^2 = 4$$



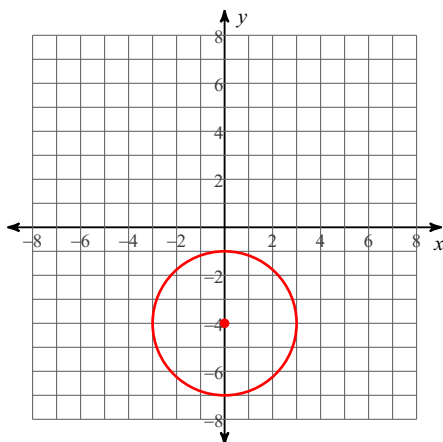
Center: (0, -4)
Radius: 2

$$16) (x - 1)^2 + y^2 = 18$$



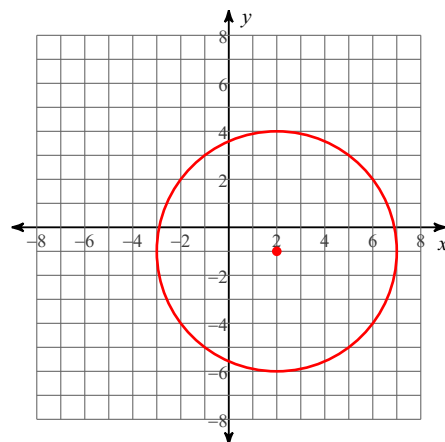
Center: (1, 0)
Radius: $3\sqrt{2}$

$$17) x^2 + (y + 4)^2 = 9$$



Center: (0, -4)
Radius: 3

$$18) (x - 2)^2 + (y + 1)^2 = 25$$



Center: (2, -1)
Radius: 5

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

19) Center: (-9, -15)
Radius: 2

$$(x + 9)^2 + (y + 15)^2 = 4$$

20) Center: (15, 4)
Radius: $2\sqrt{2}$

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

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

Radius: $\sqrt{13}$

$$(x + 13)^2 + (y + 2)^2 = 13$$

22) Center: $(15, 0)$

Radius: 2

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

23) Center: $(-6, -1)$

Radius: $\sqrt{141}$

$$(x + 6)^2 + (y + 1)^2 = 141$$

24) Center: $(15, -1)$

Radius: 1

$$(x - 15)^2 + (y + 1)^2 = 1$$

25) Center: $(-10, -10)$

Radius: $4\sqrt{5}$

$$(x + 10)^2 + (y + 10)^2 = 80$$

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

Radius: 6

$$(x + 7)^2 + (y + 9)^2 = 36$$

27) Center: $(0, 14)$

Radius: 5

$$x^2 + (y - 14)^2 = 25$$

28) Center: $(1, 6)$

Radius: $\sqrt{78}$

$$(x - 1)^2 + (y - 6)^2 = 78$$

29) Center: $(16, 4)$

Radius: $\sqrt{5}$

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

30) Center: $(7, -10)$

Radius: 3

$$(x - 7)^2 + (y + 10)^2 = 9$$