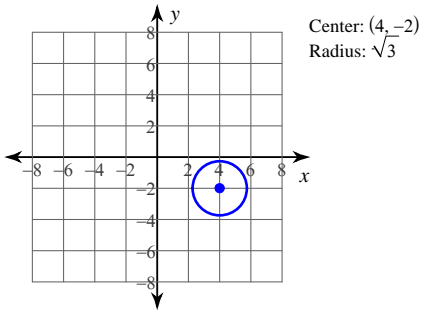


Assignment

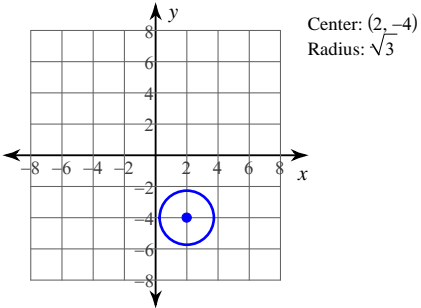
Identify the center and radius of each. Then sketch the graph.

1) $y^2 + x^2 - 8x = -17 - 4y$

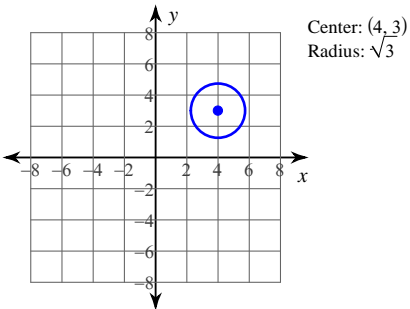
A)



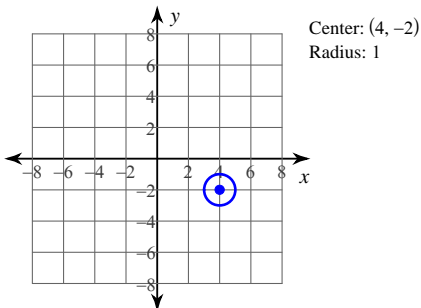
B)



C)

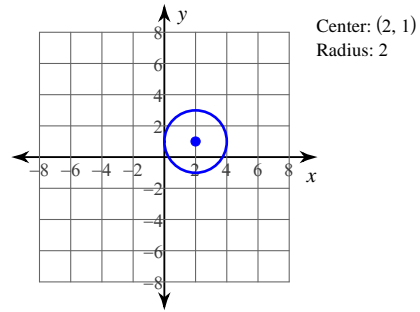


D)

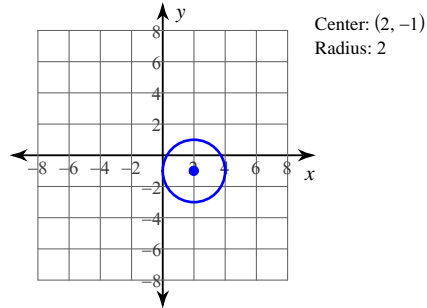


2) $-4x = -1 - y^2 - x^2 - 2y$

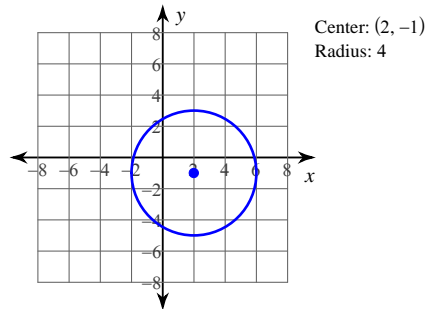
A)



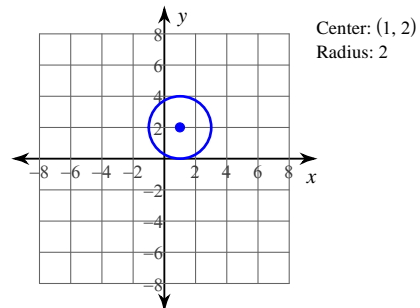
B)



C)

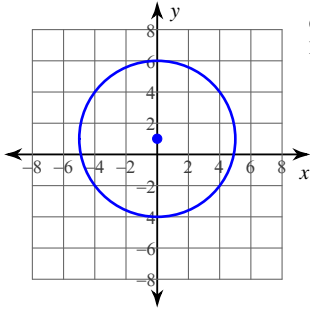


D)



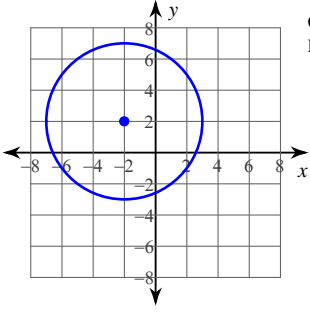
3) $y^2 = -x^2 + 25$

A)



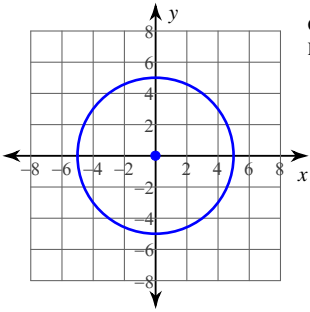
Center: (0, 1)
Radius: 5

B)



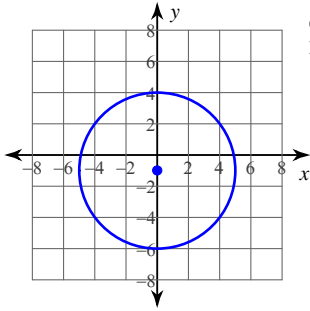
Center: (-2, 2)
Radius: 5

C)



Center: (0, 0)
Radius: 5

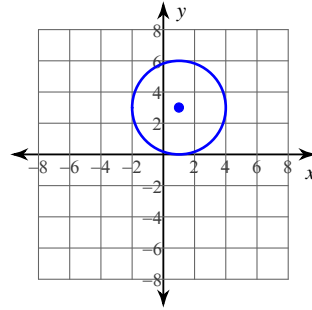
D)



Center: (0, -1)
Radius: 5

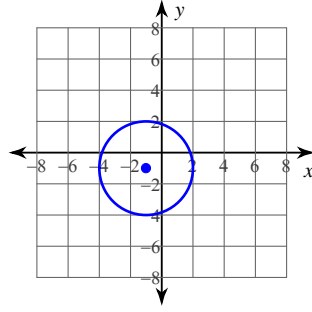
4) $y^2 - 2y + x^2 + 2x = 7$

A)



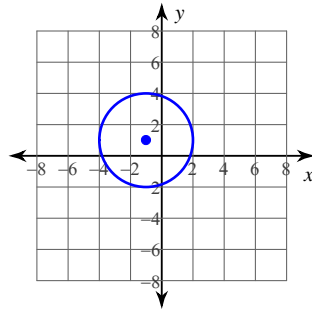
Center: (1, 3)
Radius: 3

B)



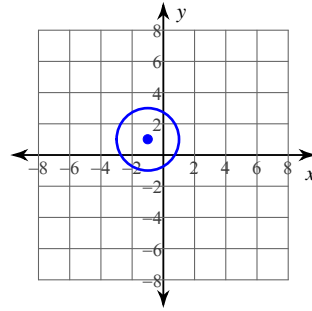
Center: (-1, -1)
Radius: 3

C)



Center: (-1, 1)
Radius: 3

D)

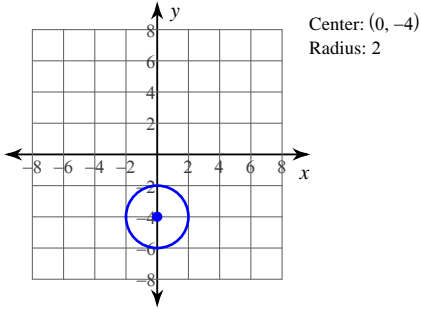


Center: (-1, 1)
Radius: 2

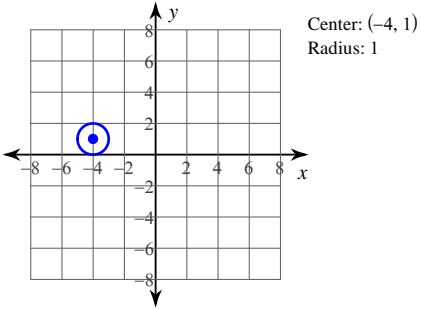


$$5) -2y + y^2 = -8 - 8x - x^2$$

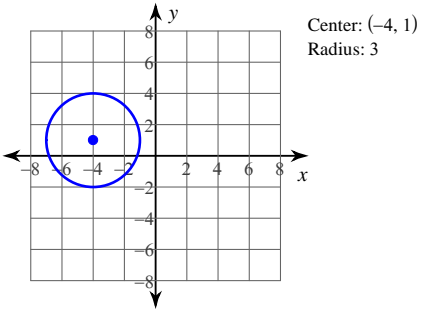
A)



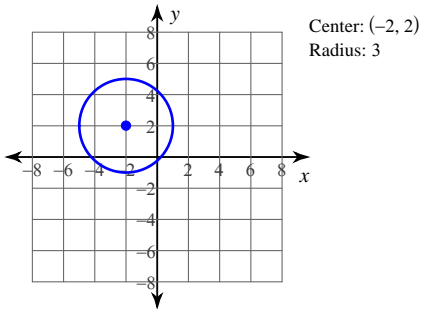
B)



C)

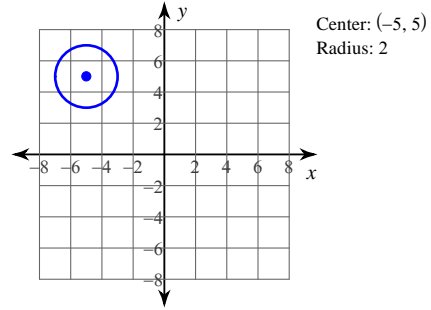


D)

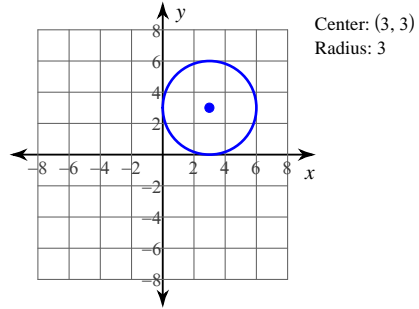


$$6) y^2 - 6x = 6y - x^2 - 9$$

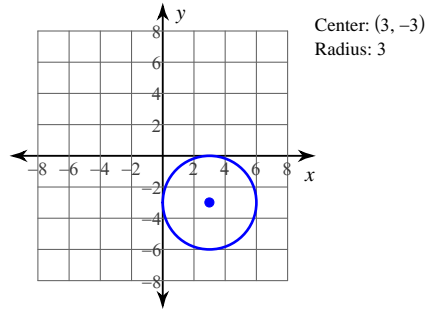
A)



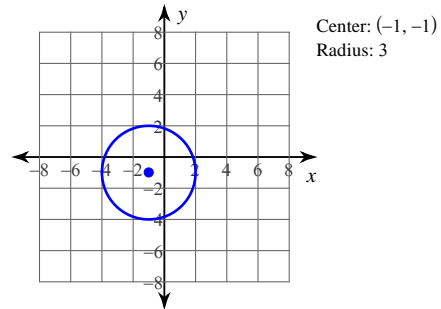
B)



C)

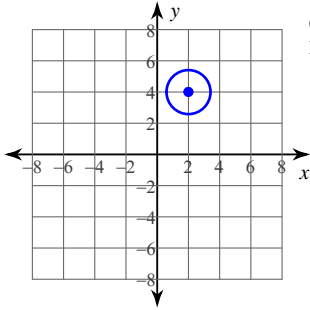


D)



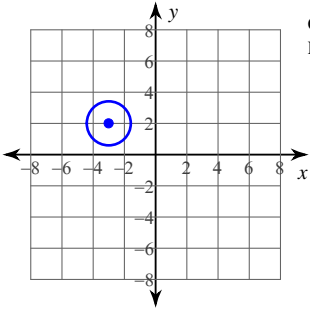
$$7) -4x + x^2 + 18 = 8y - y^2$$

A)



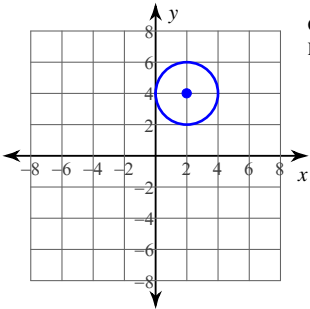
Center: $(2, 4)$
Radius: $\sqrt{2}$

B)



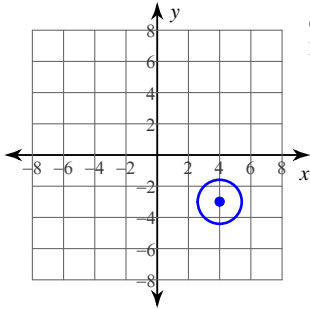
Center: $(-3, 2)$
Radius: $\sqrt{2}$

C)



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

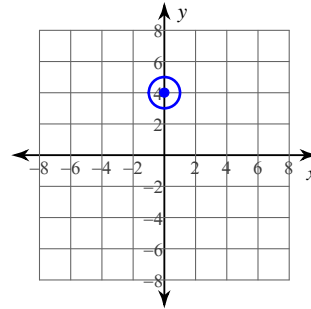
D)



Center: $(4, -3)$
Radius: $\sqrt{2}$

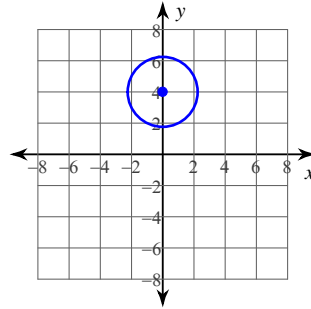
$$8) x^2 + (y - 4)^2 = 5$$

A)



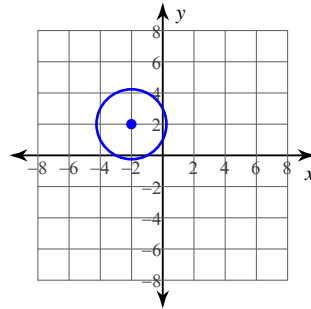
Center: $(0, 4)$
Radius: 1

B)



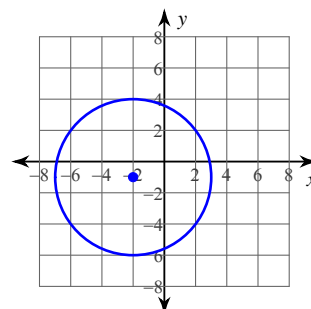
Center: $(0, 4)$
Radius: $\sqrt{5}$

C)



Center: $(-2, 2)$
Radius: $\sqrt{5}$

D)

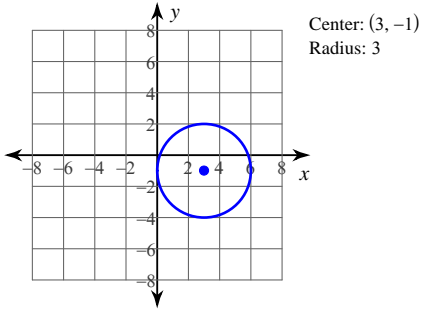


Center: $(-2, -1)$
Radius: 5

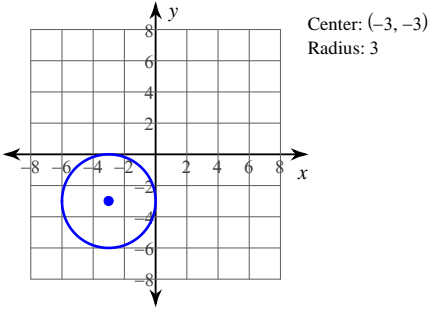


9) $(x + 3)^2 + (y + 3)^2 = 9$

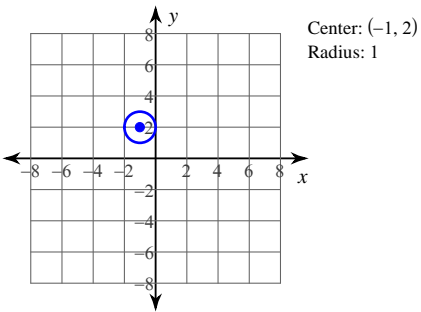
A)



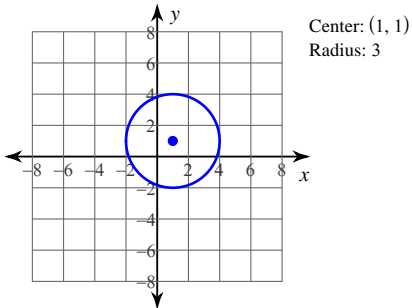
B)



C)

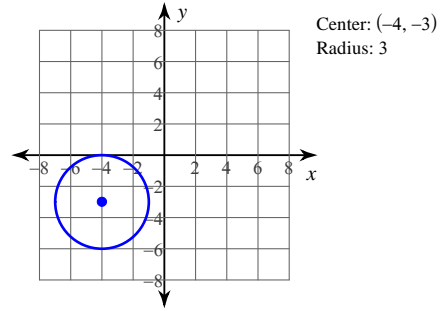


D)

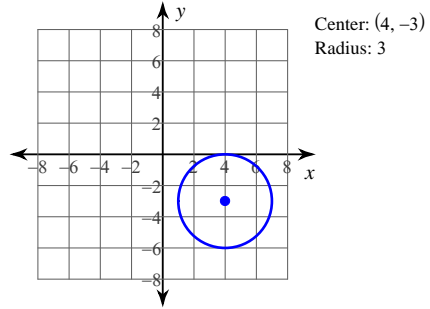


10) $(x + 4)^2 + (y + 3)^2 = 1$

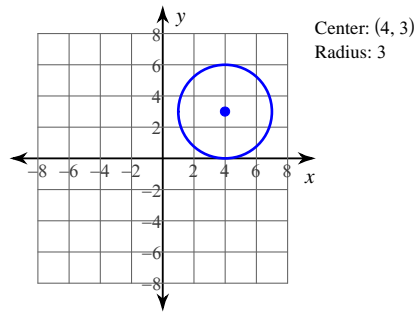
A)



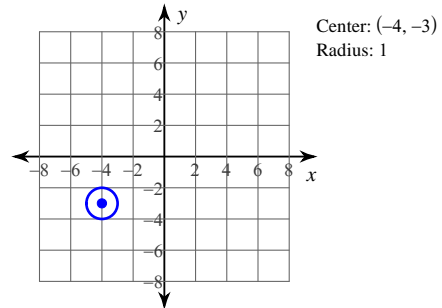
B)



C)

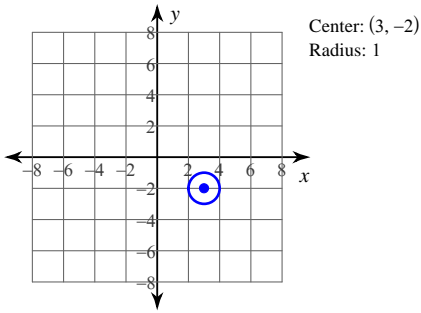


D)

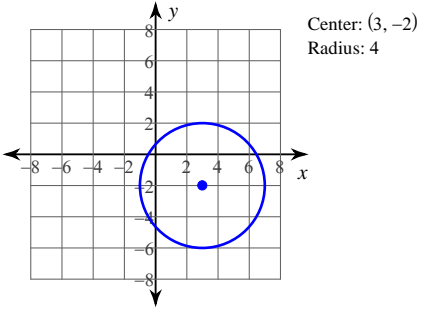


11) $(x - 3)^2 + (y + 2)^2 = 16$

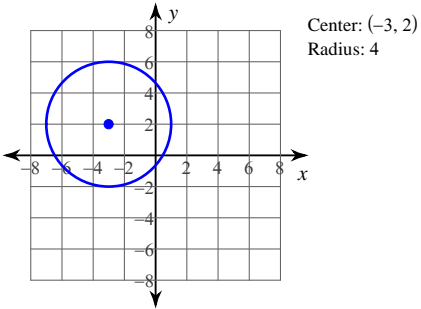
A)



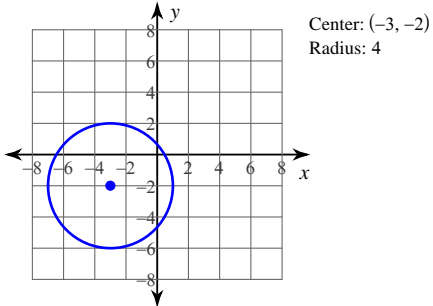
B)



C)

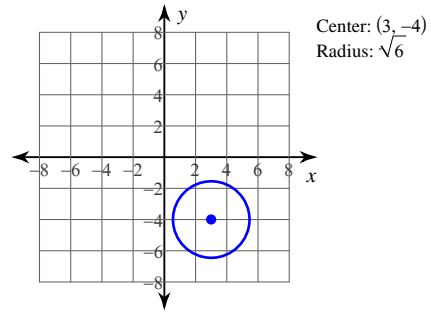


D)

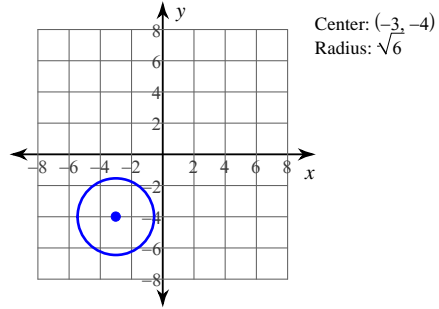


12) $(x - 4)^2 + (y - 3)^2 = 6$

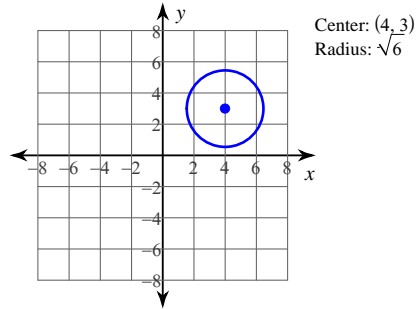
A)



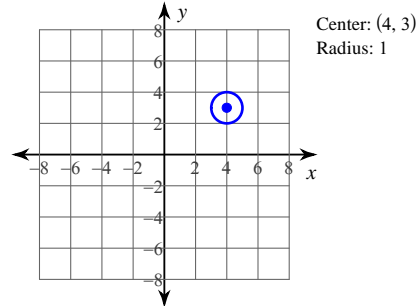
B)



C)

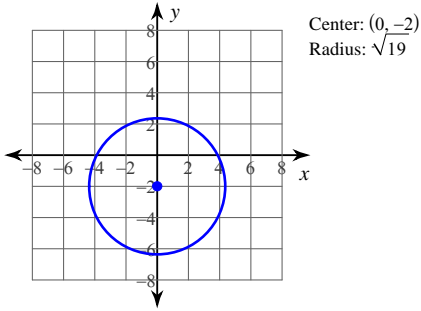


D)

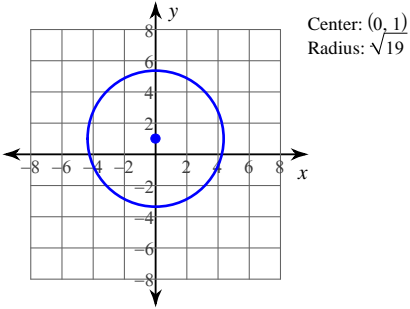


13) $(x + 1)^2 + y^2 = 19$

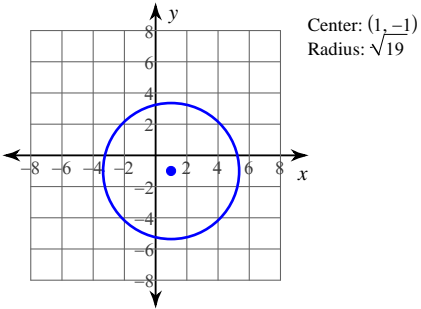
A)



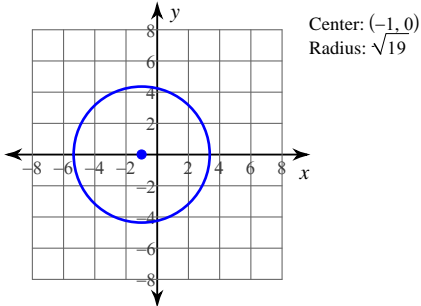
B)



C)

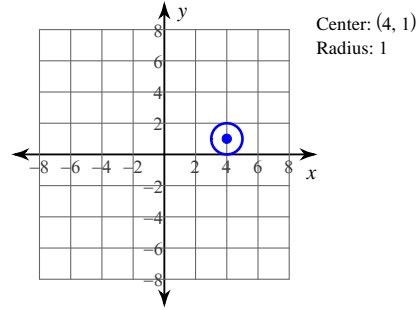


D)

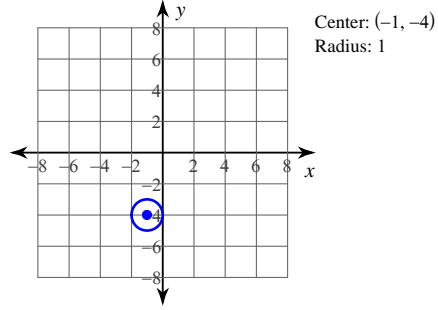


14) $x^2 - 8x = -y^2 - 16 + 2y$

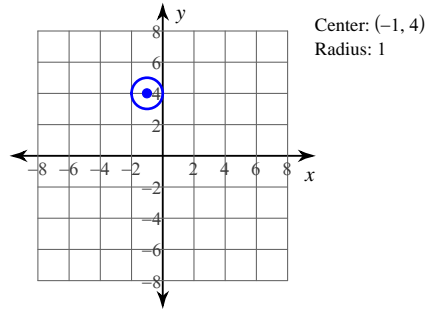
A)



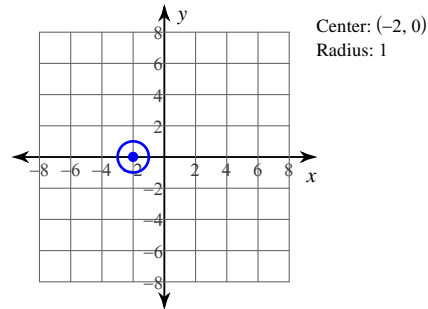
B)



C)

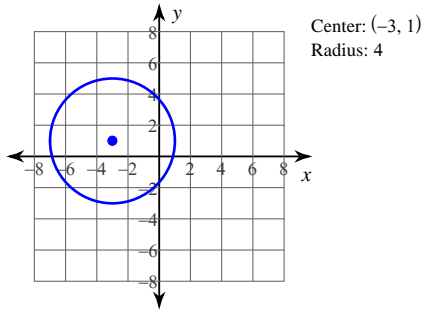


D)

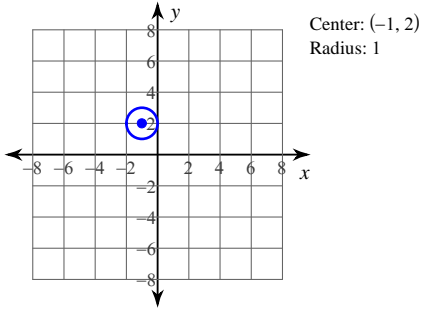


$$15) -2y + x^2 = -y^2 + 6 - 6x$$

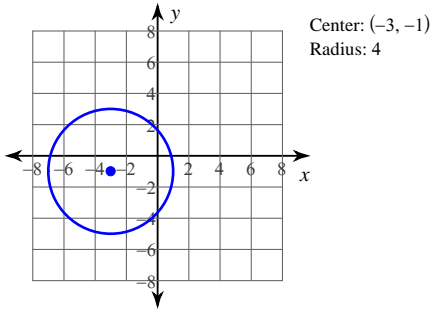
A)



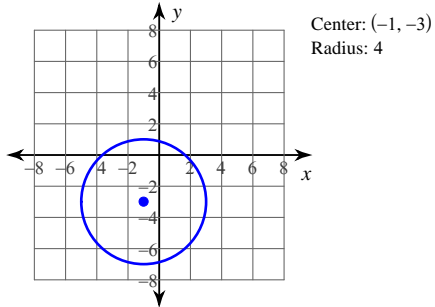
B)



C)

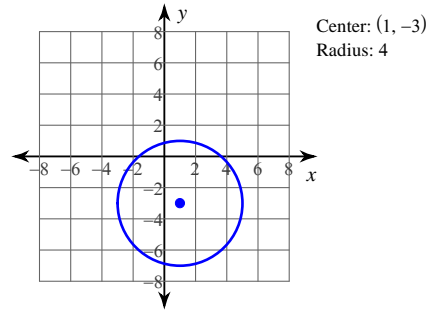


D)

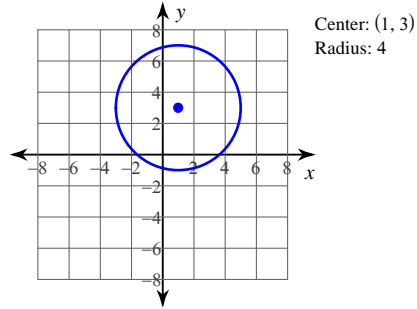


$$16) -6y + y^2 - 6 + x^2 = 2x$$

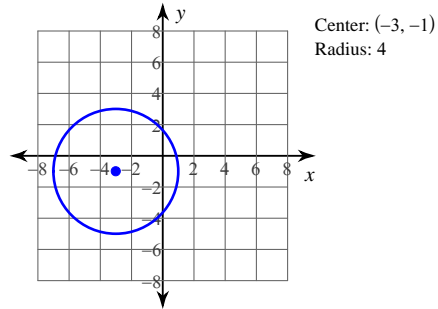
A)



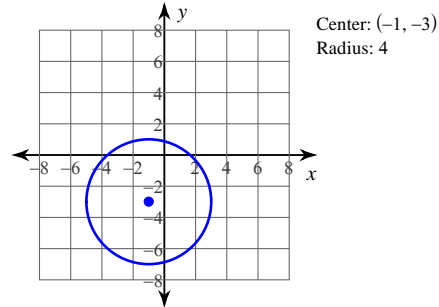
B)



C)

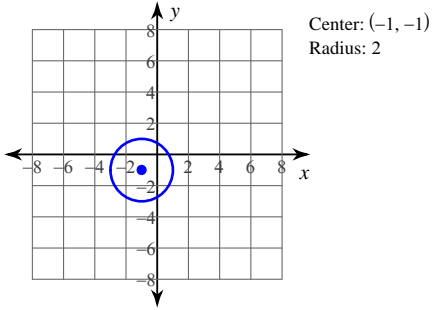


D)

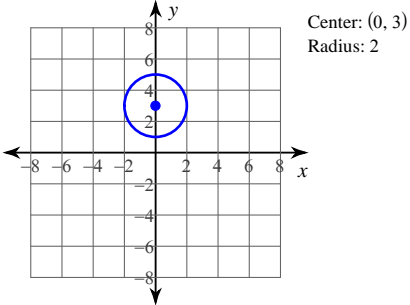


17) $-6y = -y^2 - 5 - x^2$

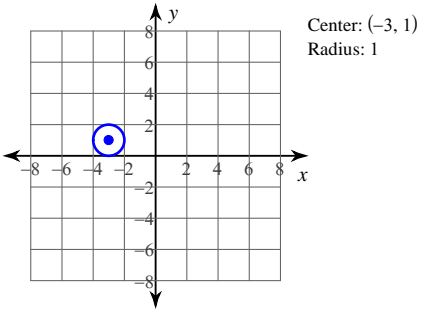
A)



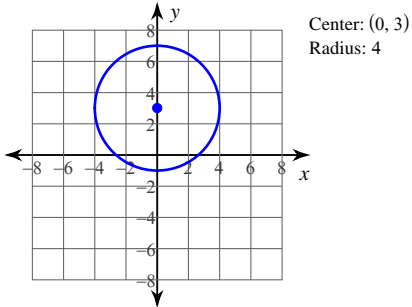
B)



C)

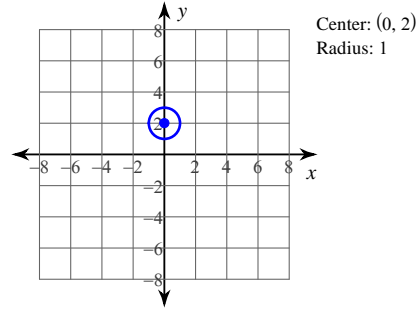


D)

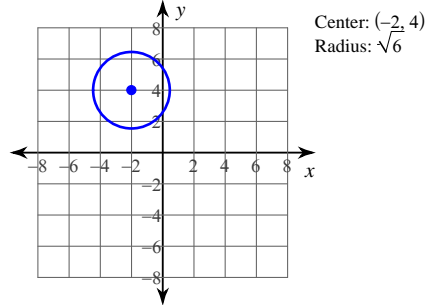


18) $14 - 8y + x^2 = -y^2 - 4x$

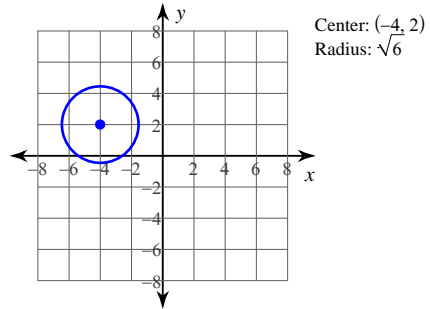
A)



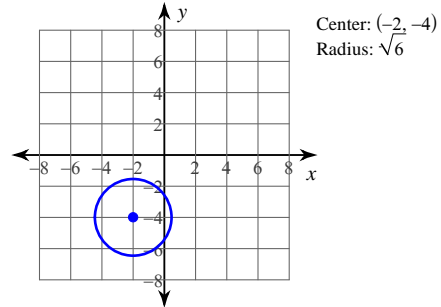
B)



C)

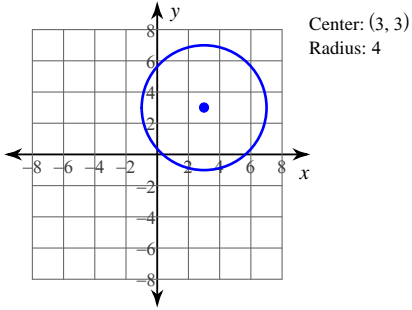


D)

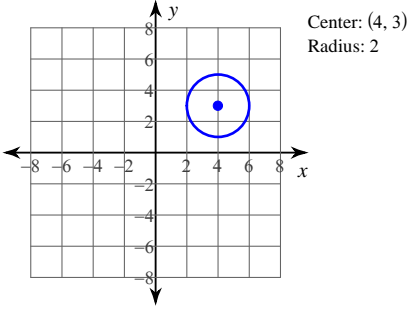


19) $14 + 6y - 6x + y^2 = -x^2$

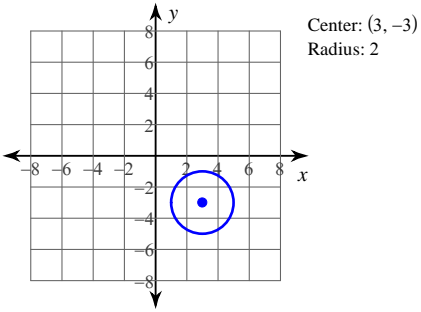
A)



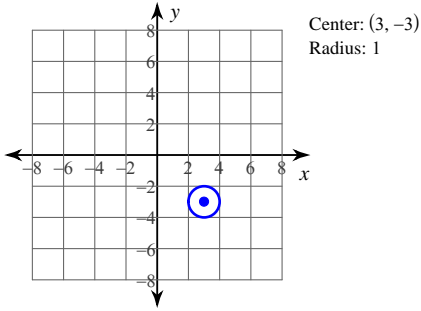
B)



C)

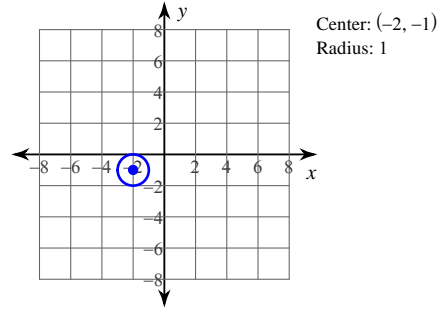


D)

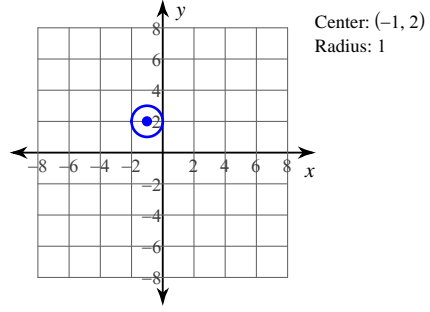


20) $4 = -x^2 - y^2 + 2x - 4y$

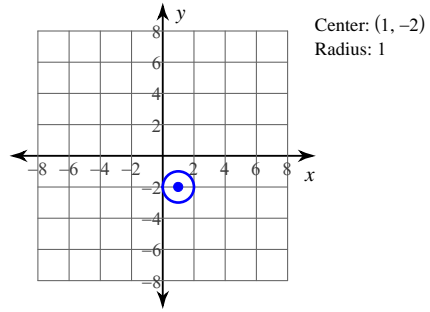
A)



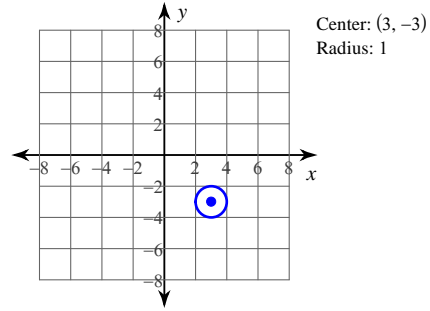
B)



C)

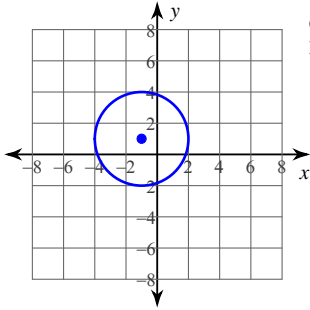


D)



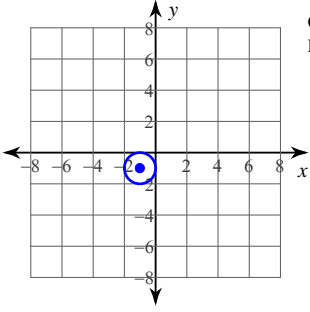
21) $-7 = -y^2 - 2y - 2x - x^2$

A)



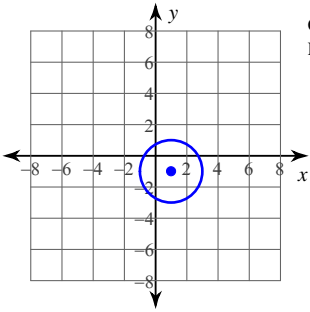
Center: $(-1, 1)$
Radius: 3

B)



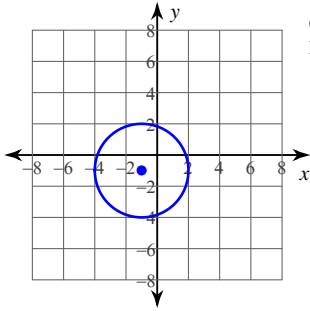
Center: $(-1, -1)$
Radius: 1

C)



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

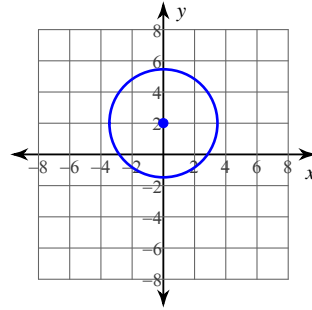
D)



Center: $(-1, -1)$
Radius: 3

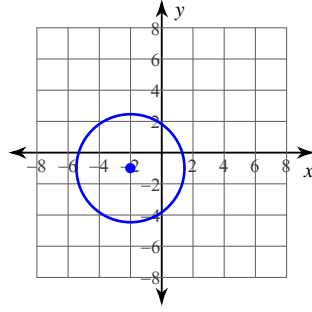
22) $-8 + 4x = -x^2 - y^2$

A)



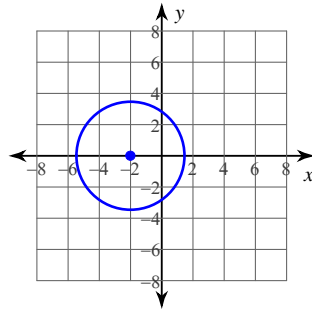
Center: $(0, 2)$
Radius: $2\sqrt{3}$

B)



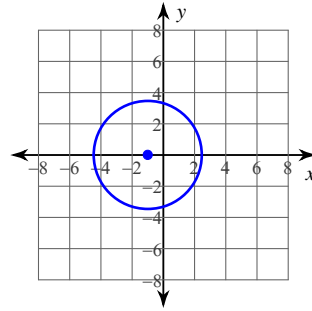
Center: $(-2, -1)$
Radius: $2\sqrt{3}$

C)



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

D)

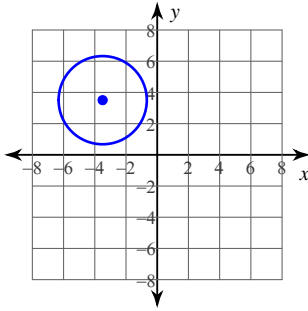


Center: $(-1, 0)$
Radius: $2\sqrt{3}$



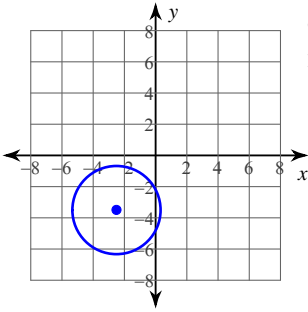
$$23) 14x + 2y^2 = 14y - 33 - 2x^2$$

A)



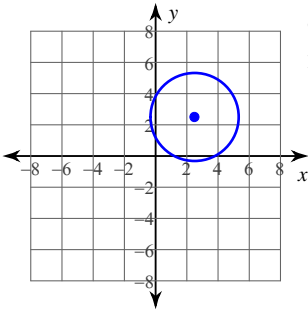
Center: $(-\frac{7}{2}, \frac{7}{2})$
Radius: $2\sqrt{2}$

B)



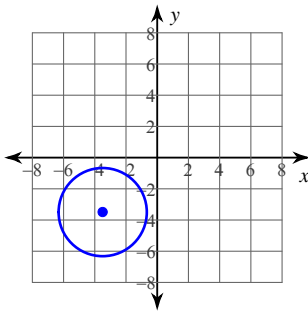
Center: $(-\frac{5}{2}, -\frac{7}{2})$
Radius: $2\sqrt{2}$

C)



Center: $(\frac{5}{2}, \frac{5}{2})$
Radius: $2\sqrt{2}$

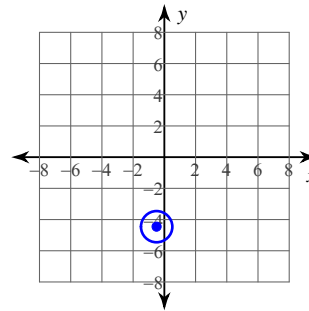
D)



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

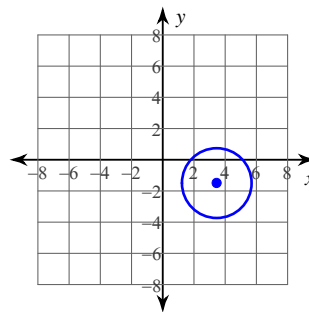
$$24) 4x^2 + 37 - 16x\sqrt{3} = -12y - 4y^2$$

A)



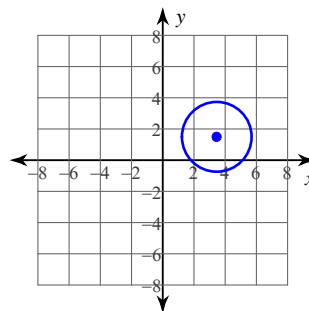
Center: $(-\frac{1}{2}, -2\sqrt{3} - 1)$
Radius: 1

B)



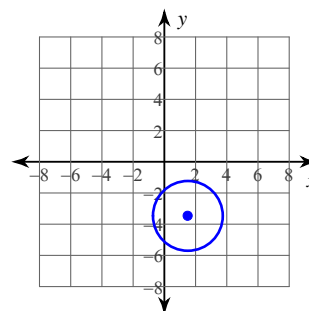
Center: $(2\sqrt{3}, -\frac{3}{2})$
Radius: $\sqrt{5}$

C)



Center: $(2\sqrt{3}, \frac{3}{2})$
Radius: $\sqrt{5}$

D)



Center: $(\frac{3}{2}, -2\sqrt{3})$
Radius: $\sqrt{5}$



Answers to Assignment (ID: 1)

1) A
5) C
9) B
13) D
17) B
21) D

2) B
6) B
10) D
14) A
18) B
22) C

3) C
7) A
11) B
15) A
19) C
23) A

4) C
8) B
12) C
16) B
20) C
24) B

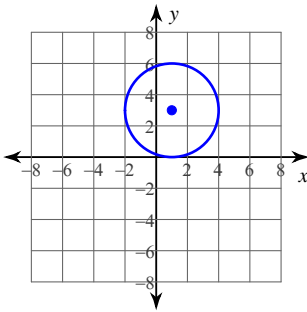


Assignment

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

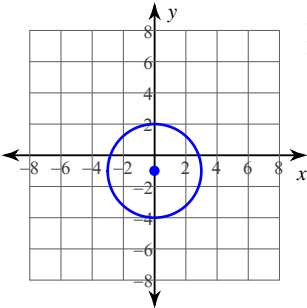
1) $4x - 6y + x^2 = -y^2 - 4$

A)



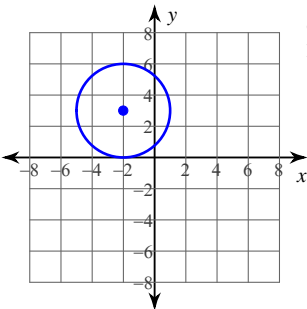
Center: (1, 3)
Radius: 3

B)



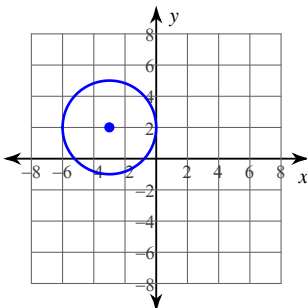
Center: (0, -1)
Radius: 3

C)



Center: (-2, 3)
Radius: 3

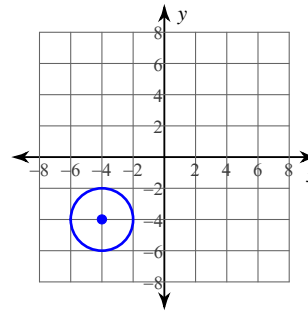
D)



Center: (-3, 2)
Radius: 3

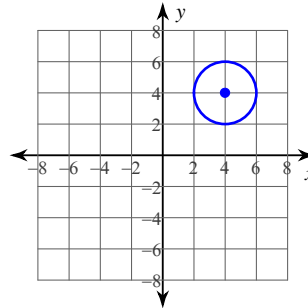
2) $28 + 8y = -x^2 - y^2 - 8x$

A)



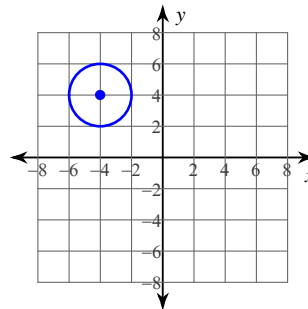
Center: (-4, -4)
Radius: 2

B)



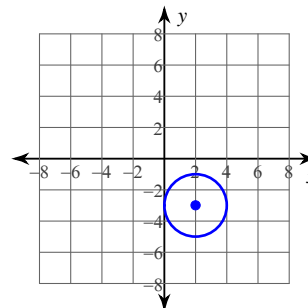
Center: (4, 4)
Radius: 2

C)



Center: (-4, 4)
Radius: 2

D)

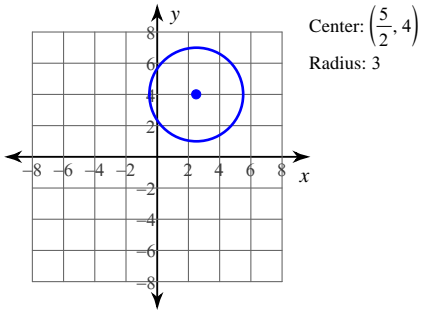


Center: (2, -3)
Radius: 2

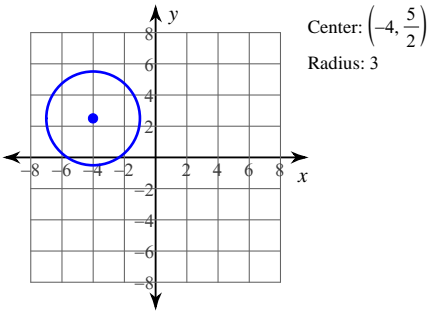


$$3) 4x^2 - 32y + 4y^2 = -53 - 20x$$

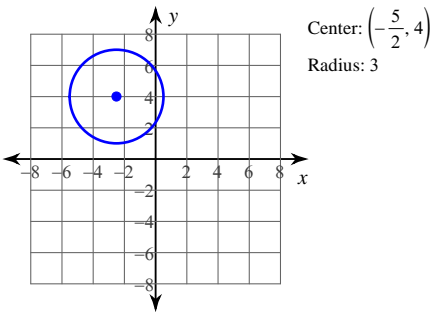
A)



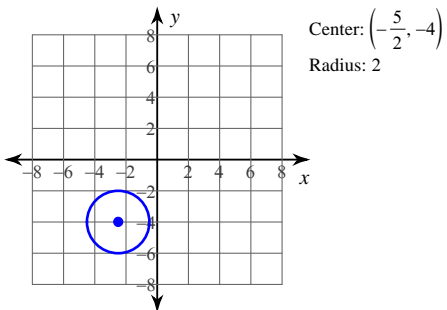
B)



C)

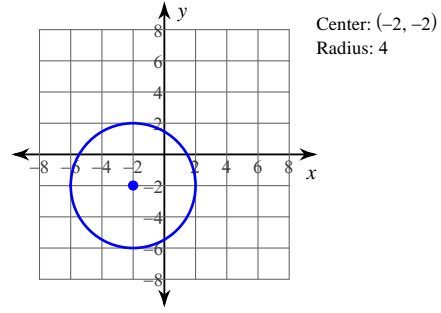


D)

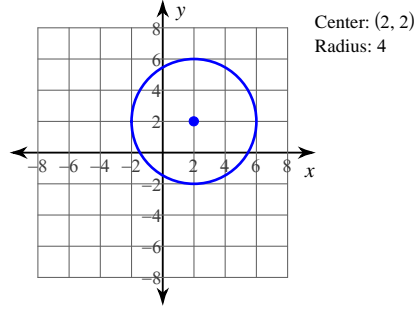


$$4) -4x - 4y + x^2 - 8 = -y^2$$

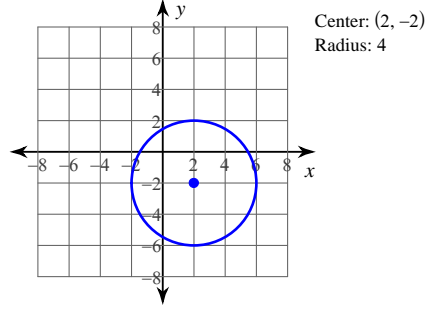
A)



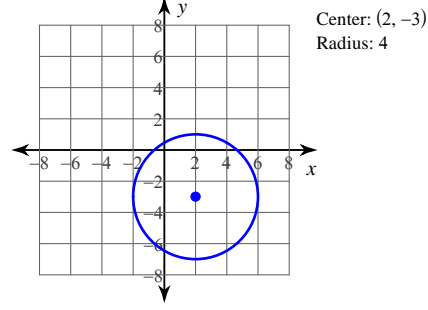
B)



C)

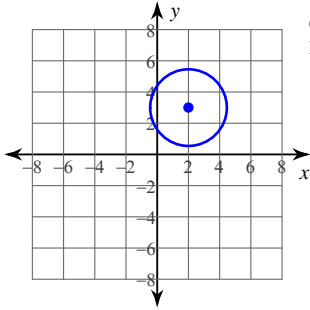


D)



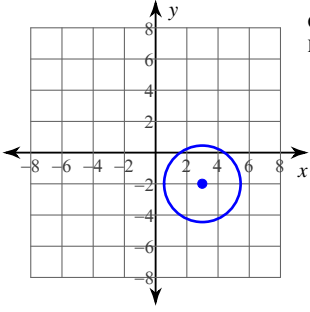
5) $7 - 4x = -y^2 - x^2 - 6y$

A)



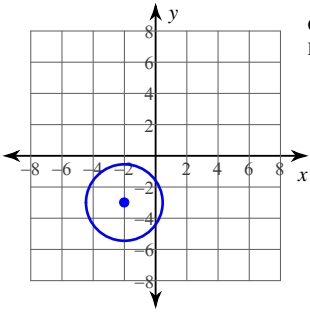
Center: $(2, 3)$
Radius: $\sqrt{6}$

B)



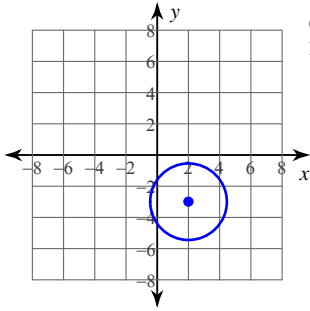
Center: $(3, -2)$
Radius: $\sqrt{6}$

C)



Center: $(-2, -3)$
Radius: $\sqrt{6}$

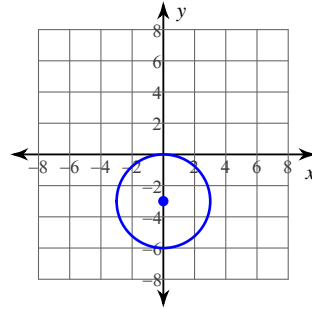
D)



Center: $(2, -3)$
Radius: $\sqrt{6}$

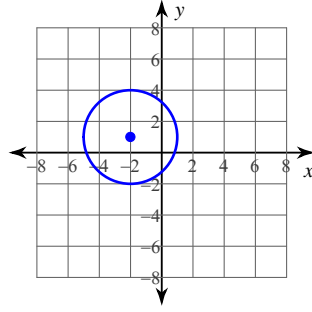
6) $2y + y^2 + 6x = -1 - x^2$

A)



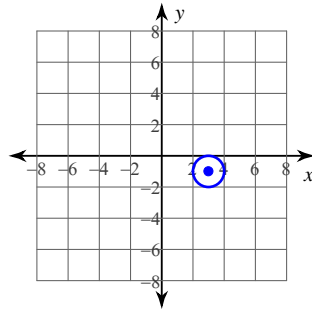
Center: $(0, -3)$
Radius: 3

B)



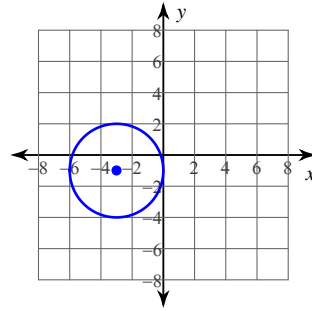
Center: $(-2, 1)$
Radius: 3

C)



Center: $(3, -1)$
Radius: 1

D)

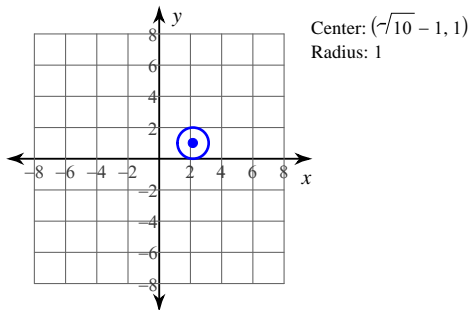


Center: $(-3, -1)$
Radius: 3

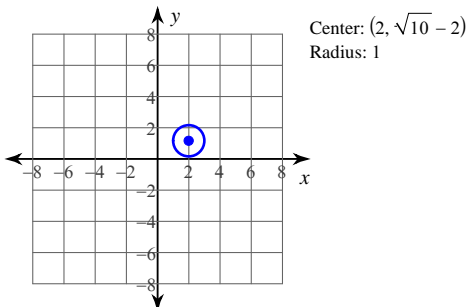


$$7) y^2 + 2y + 10 - 2x\sqrt{10} = -x^2$$

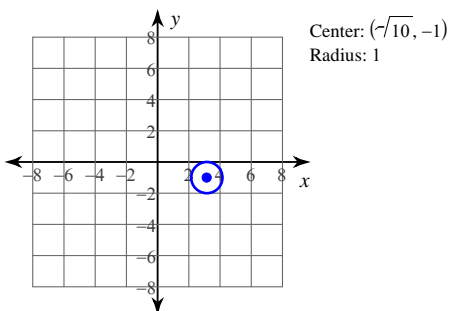
A)



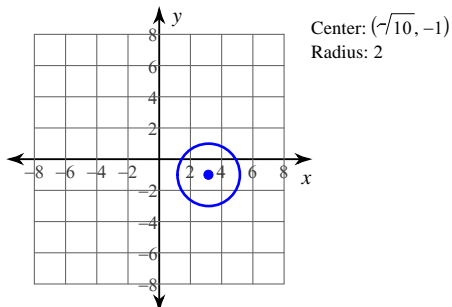
B)



C)

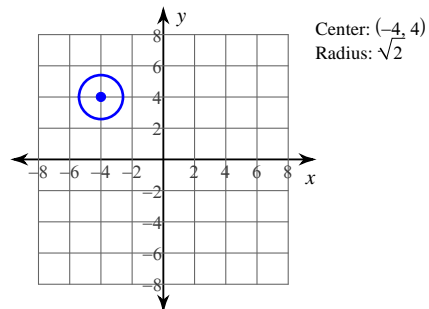


D)

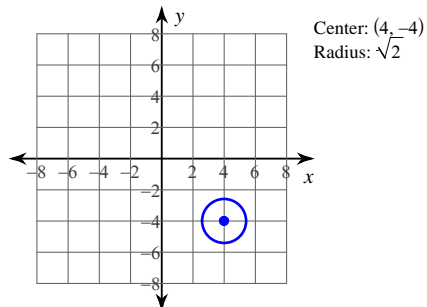


$$8) 30 + y^2 = 8x - 8y - x^2$$

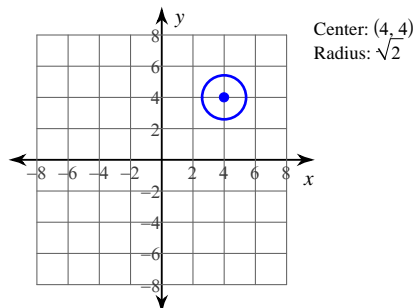
A)



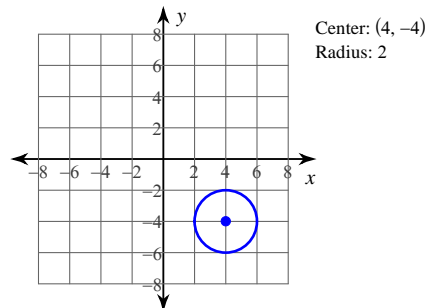
B)



C)

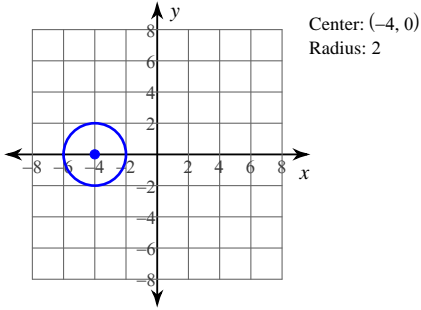


D)

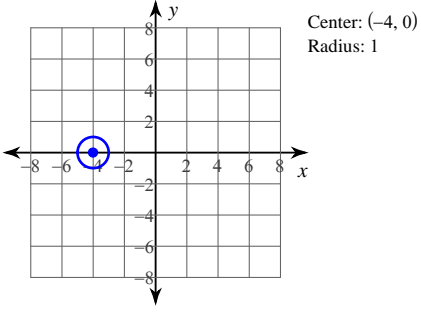


9) $15 + x^2 = -8x - y^2$

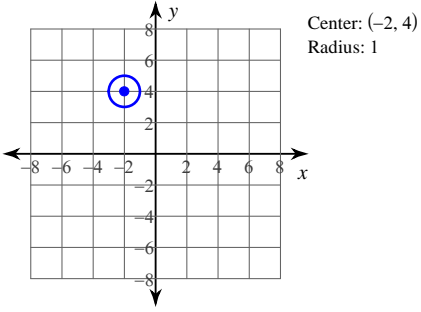
A)



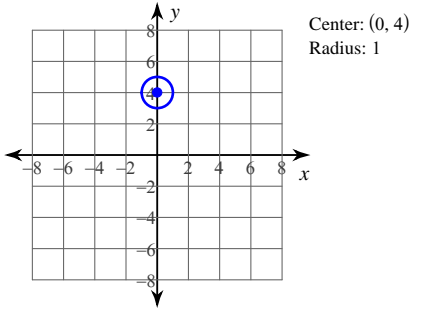
B)



C)

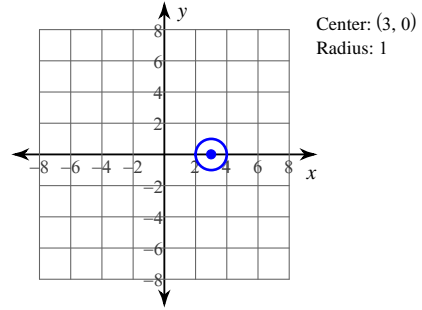


D)

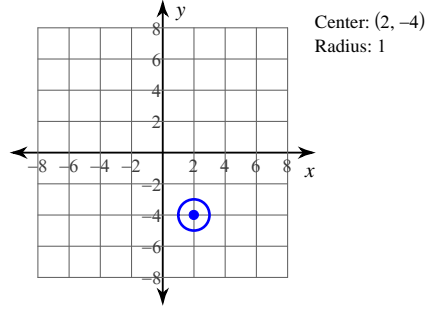


10) $8 + x^2 - 6x = -y^2$

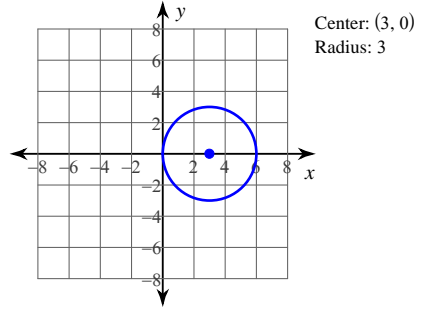
A)



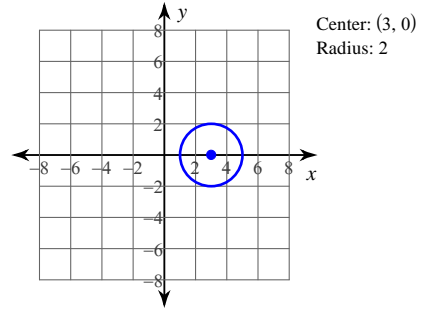
B)



C)

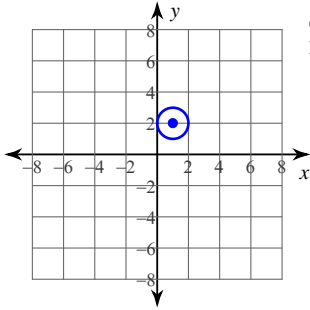


D)



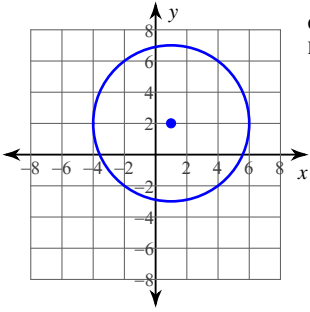
11) $-20 + y^2 + x^2 - 4y = -2x$

A)



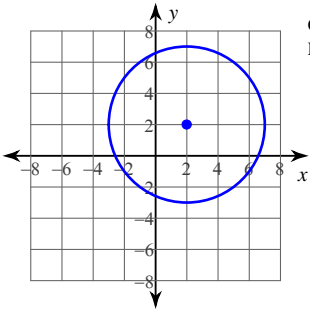
Center: (1, 2)
Radius: 1

B)



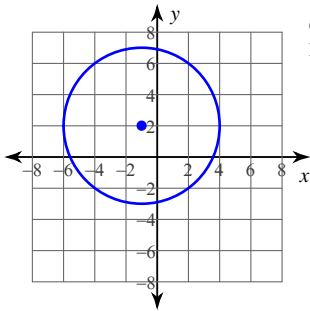
Center: (1, 2)
Radius: 5

C)



Center: (2, 2)
Radius: 5

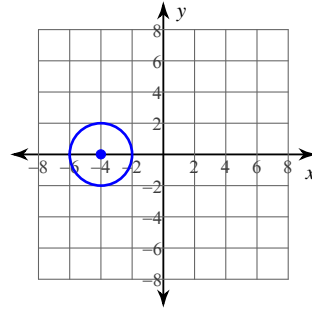
D)



Center: (-1, 2)
Radius: 5

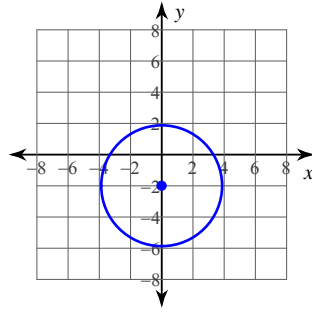
12) $y^2 - 11 + x^2 = 4y$

A)



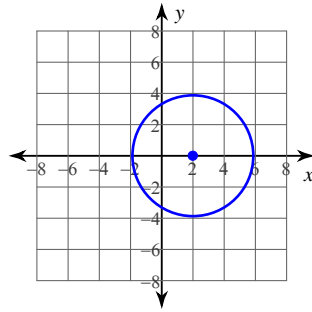
Center: (-4, 0)
Radius: 2

B)



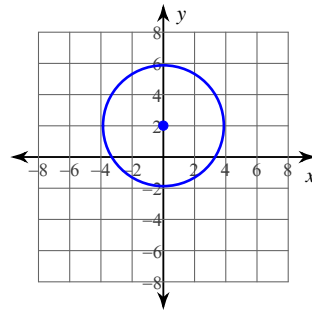
Center: (0, -2)
Radius: $\sqrt{15}$

C)



Center: (2, 0)
Radius: $\sqrt{15}$

D)

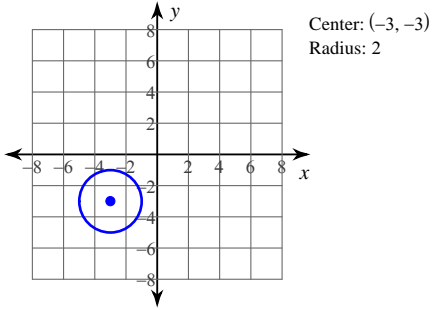


Center: (0, 2)
Radius: $\sqrt{15}$

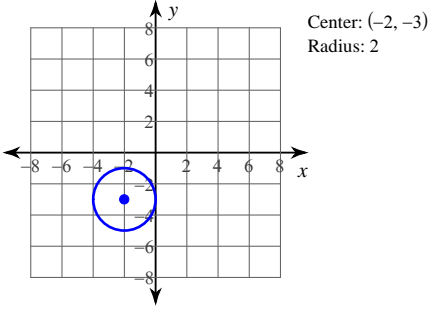


13) $x^2 = -6x + 6y - 14 - y^2$

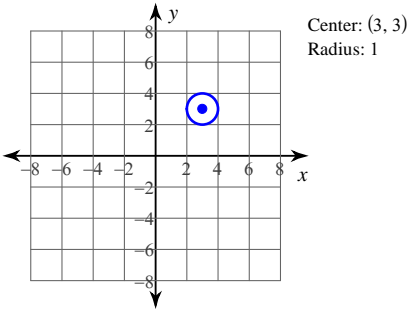
A)



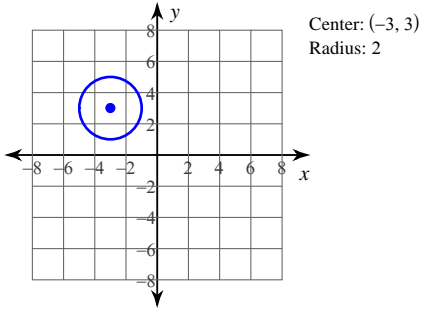
B)



C)

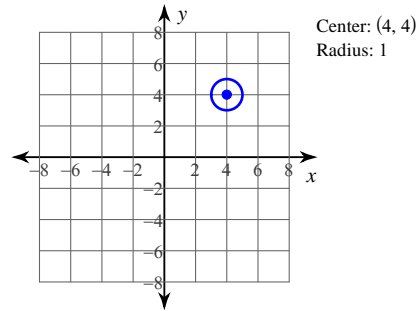


D)

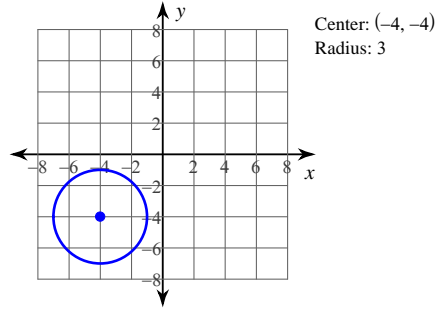


14) $(x - 4)^2 + (y - 4)^2 = 1$

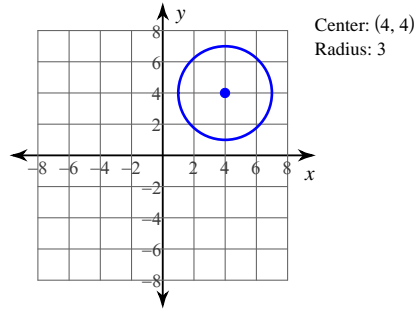
A)



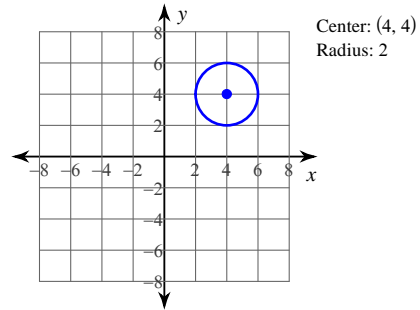
B)



C)

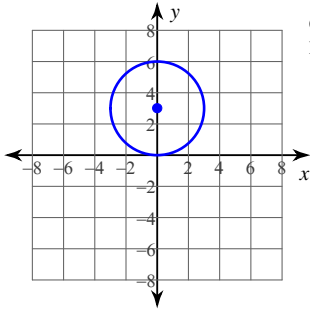


D)



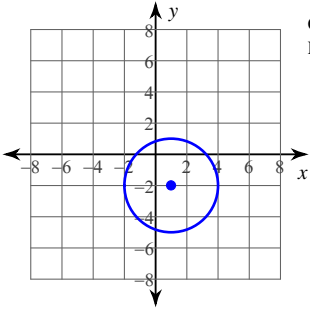
15) $x^2 + (y + 3)^2 = 9$

A)



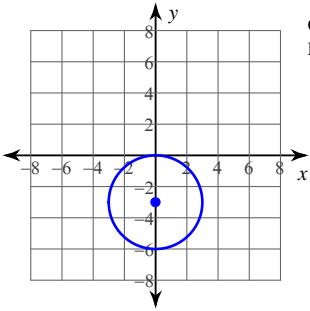
Center: (0, 3)
Radius: 3

B)



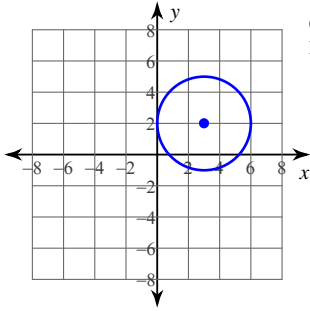
Center: (1, -2)
Radius: 3

C)



Center: (0, -3)
Radius: 3

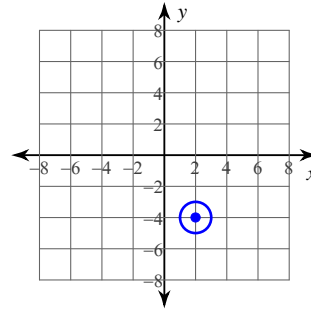
D)



Center: (3, 2)
Radius: 3

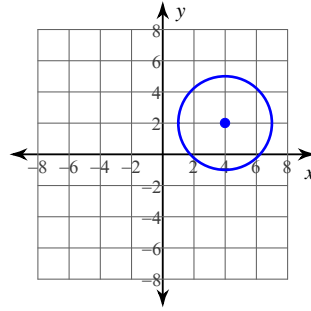
16) $(x - 2)^2 + (y + 4)^2 = 9$

A)



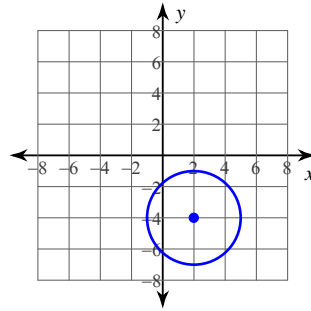
Center: (2, -4)
Radius: 1

B)



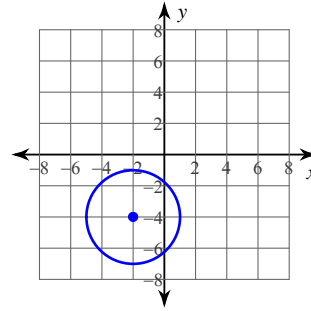
Center: (4, 2)
Radius: 3

C)



Center: (2, -4)
Radius: 3

D)

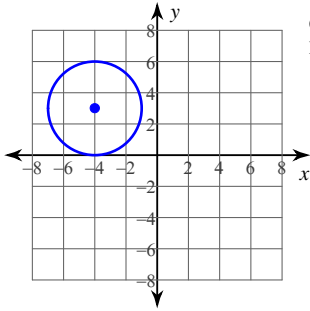


Center: (-2, -4)
Radius: 3



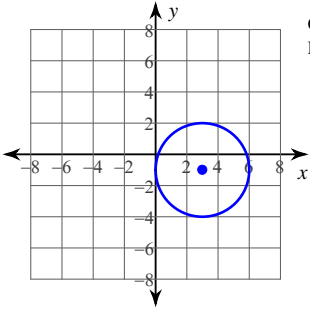
$$17) (x + 2)^2 + (y + 2)^2 = 9$$

A)



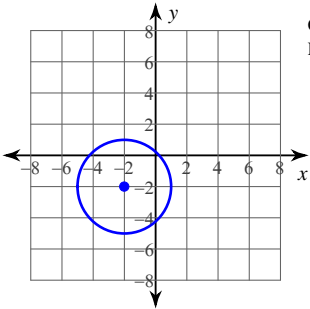
Center: (-4, 3)
Radius: 3

B)



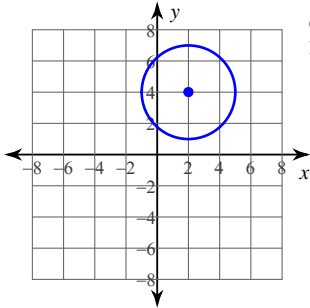
Center: (3, -1)
Radius: 3

C)



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

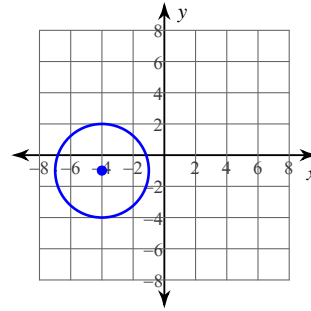
D)



Center: (2, 4)
Radius: 3

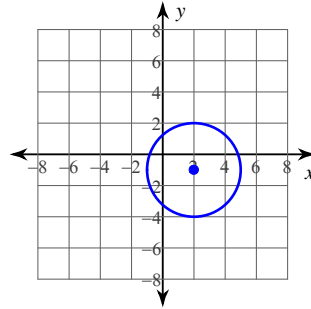
$$18) (x + 4)^2 + (y + 1)^2 = 9$$

A)



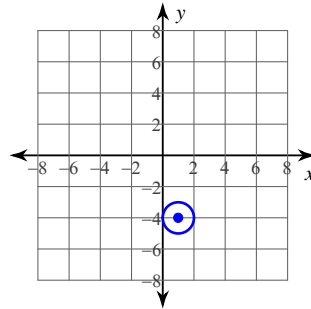
Center: (-4, -1)
Radius: 3

B)



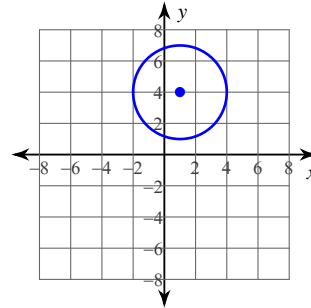
Center: (2, -1)
Radius: 3

C)



Center: (1, -4)
Radius: 1

D)

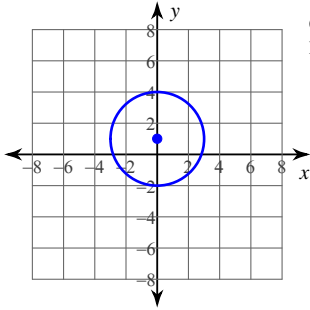


Center: (1, 4)
Radius: 3



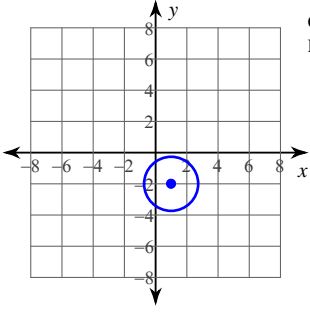
19) $-2y - 2 = -x^2 - y^2$

A)



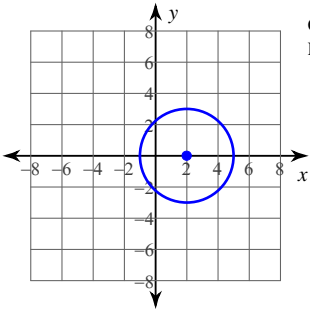
Center: (0, 1)
Radius: 3

B)



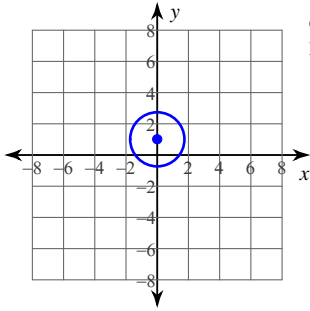
Center: (1, -2)
Radius: $\sqrt{3}$

C)



Center: (2, 0)
Radius: 3

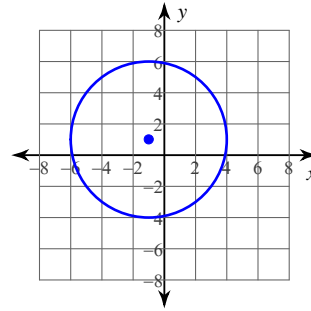
D)



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

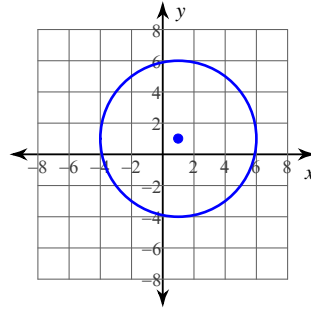
20) $(x - 1)^2 + (y - 1)^2 = 25$

A)



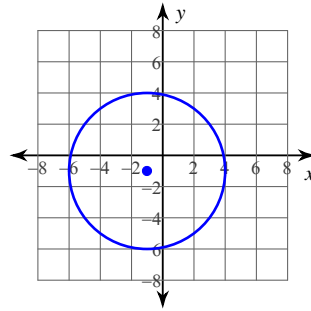
Center: (-1, 1)
Radius: 5

B)



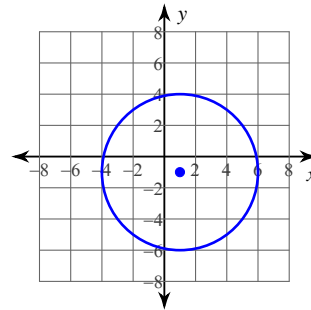
Center: (1, 1)
Radius: 5

C)



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

D)

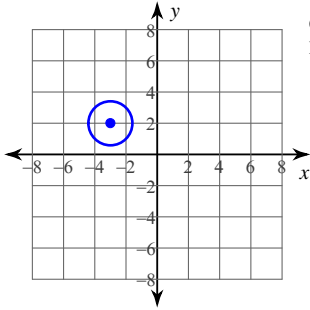


Center: (1, -1)
Radius: 5



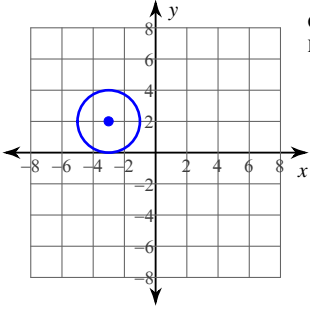
21) $x^2 = -y^2 - 6x - 11 + 4y$

A)



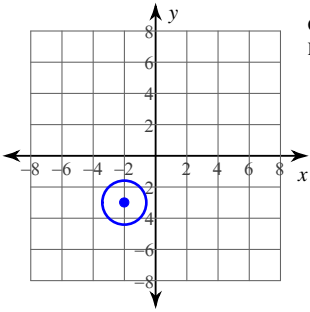
Center: $(-3, 2)$
Radius: $\sqrt{2}$

B)



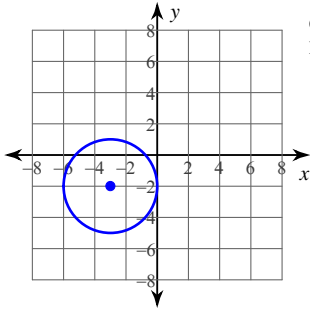
Center: $(-3, 2)$
Radius: 2

C)



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

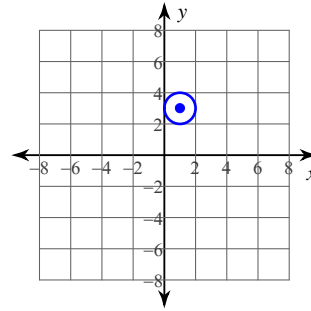
D)



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

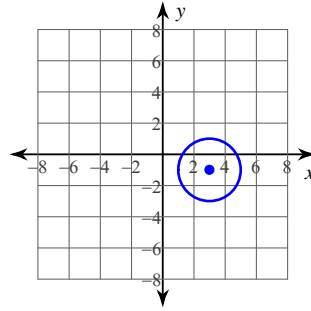
22) $(x - 3)^2 + (y + 1)^2 = 4$

A)



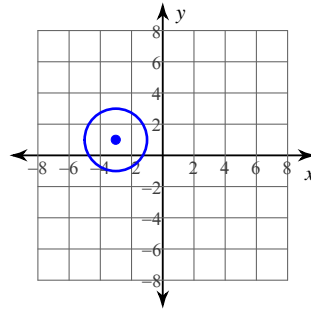
Center: $(1, 3)$
Radius: 1

B)



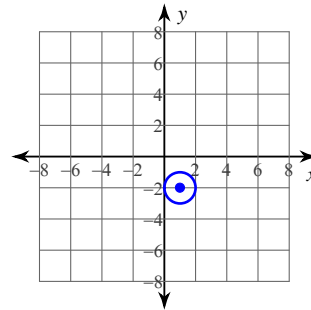
Center: $(3, -1)$
Radius: 2

C)



Center: $(-3, 1)$
Radius: 2

D)

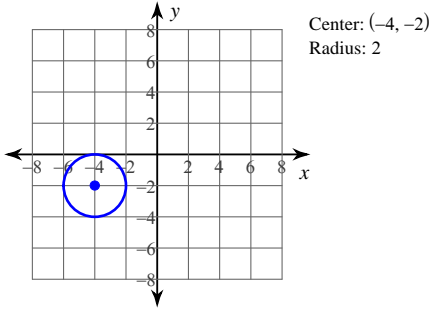


Center: $(1, -2)$
Radius: 1

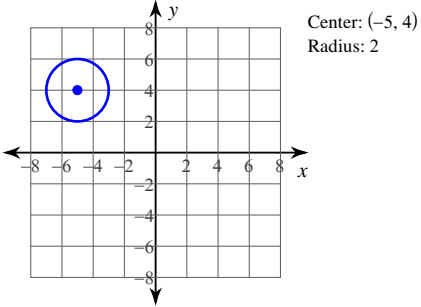


23) $x^2 - 8y + 28 = -y^2 + 8x$

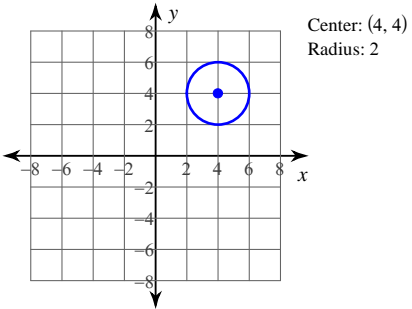
A)



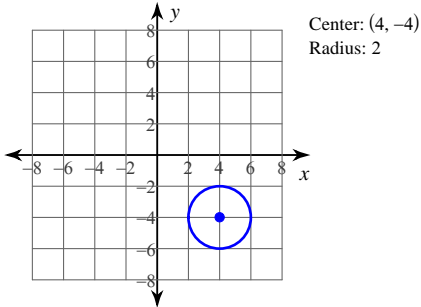
B)



C)

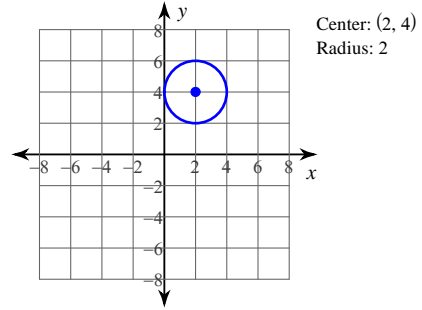


D)

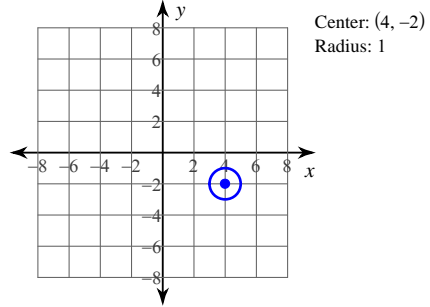


24) $x^2 - 4x = -y^2 - 16 + 8y$

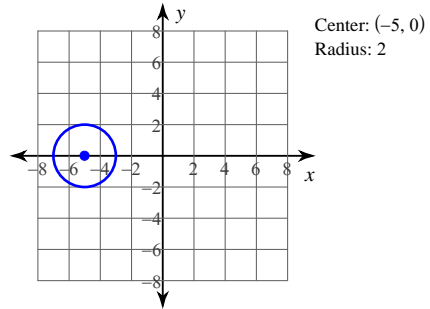
A)



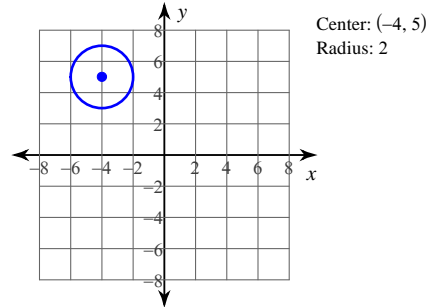
B)



C)



D)



Answers to Assignment (ID: 2)

1) C
5) D
9) B
13) D
17) C
21) A

2) A
6) D
10) A
14) A
18) A
22) B

3) C
7) C
11) D
15) C
19) D
23) C

4) B
8) B
12) D
16) C
20) B
24) A

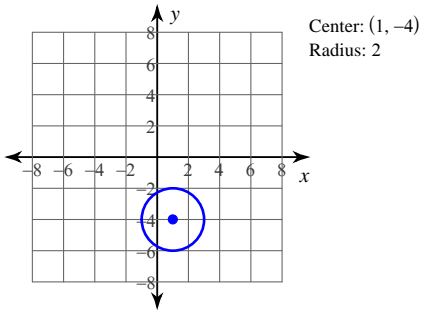


Assignment

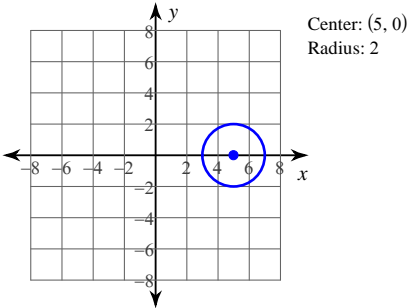
Identify the center and radius of each. Then sketch the graph.

1) $13 + x^2 - 2x = -8y - y^2$

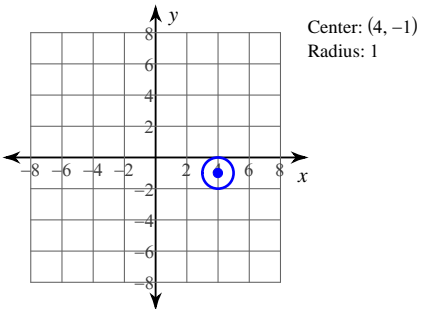
A)



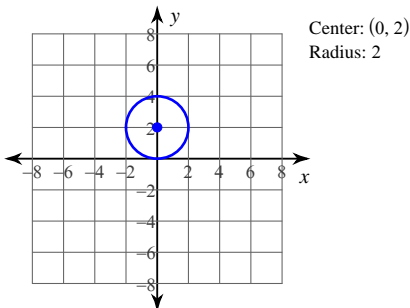
B)



C)

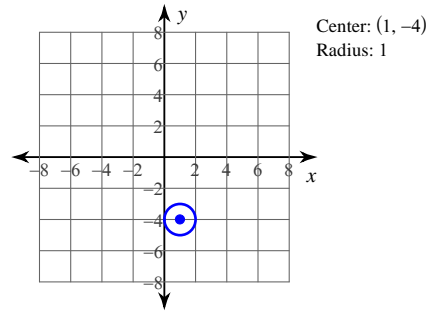


D)

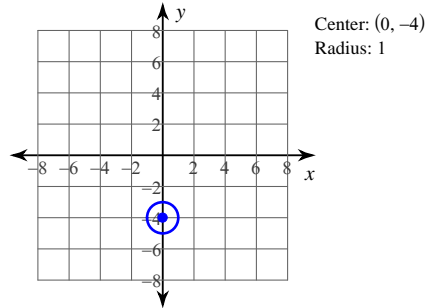


2) $15 + y^2 + x^2 = -8y$

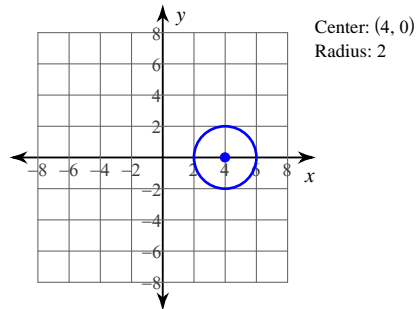
A)



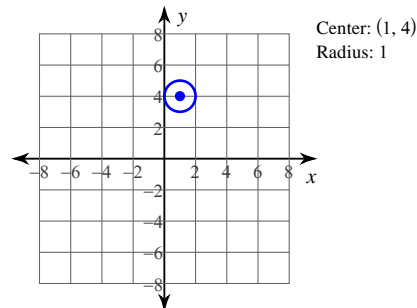
B)



C)

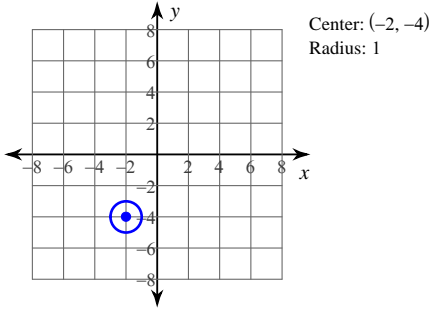


D)

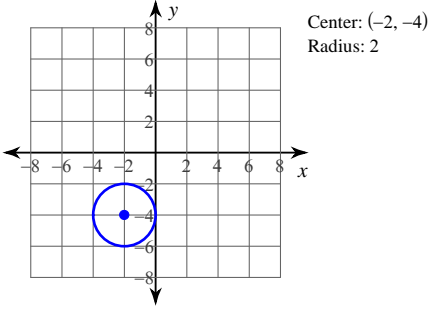


$$3) 19 + 4x = -y^2 - 8y - x^2$$

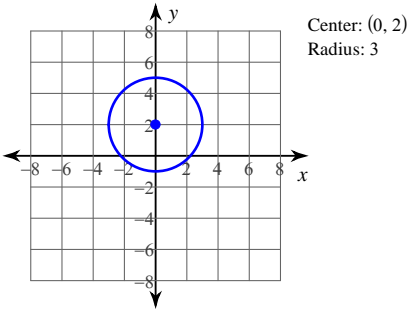
A)



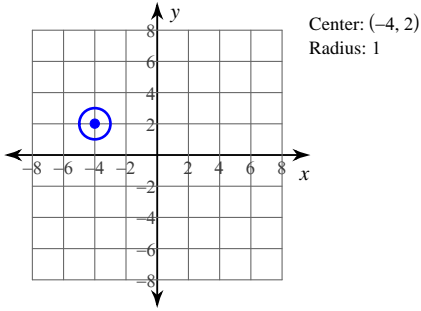
B)



C)

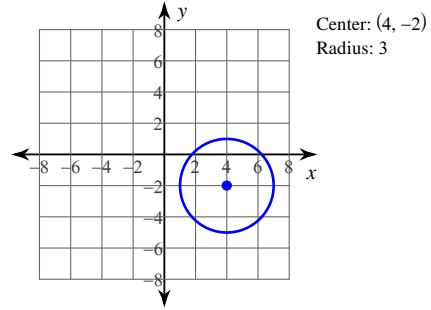


D)

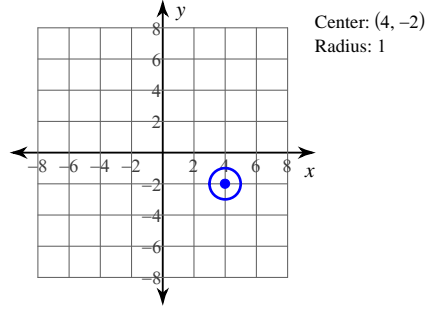


$$4) -8x + 19 + 4y = -y^2 - x^2$$

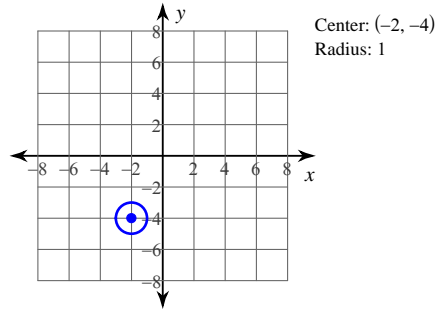
A)



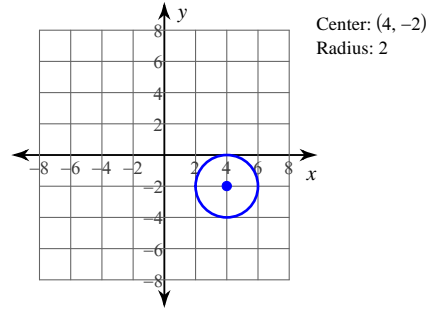
B)



C)

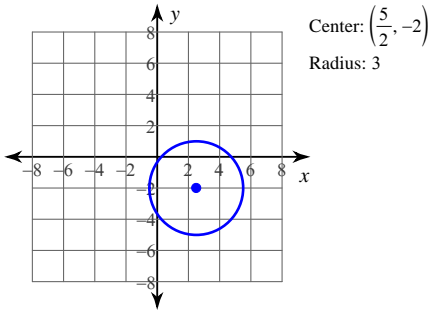


D)

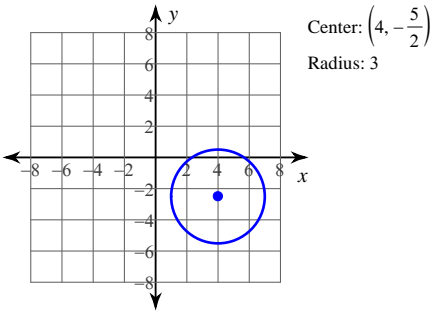


$$5) 4x^2 = -53 + 32x - 20y - 4y^2$$

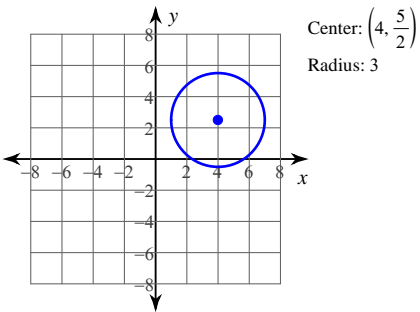
A)



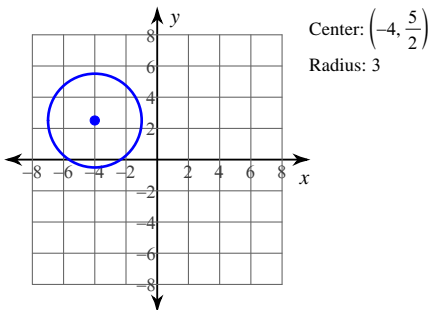
B)



C)

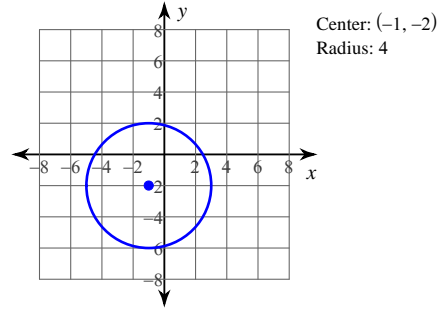


D)

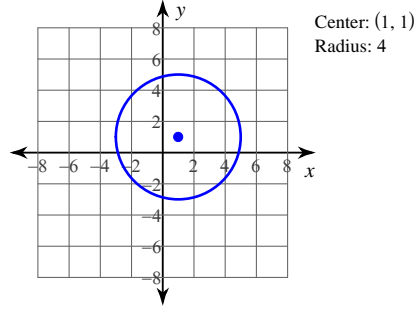


$$6) 2x - 2y + y^2 + x^2 = 14$$

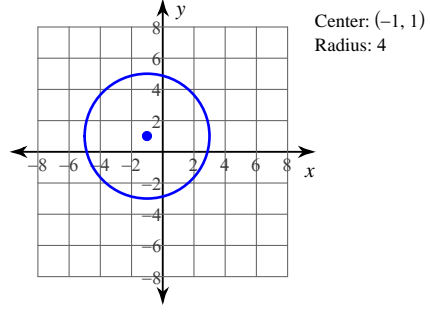
A)



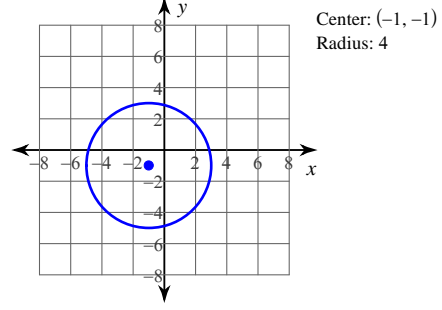
B)



C)

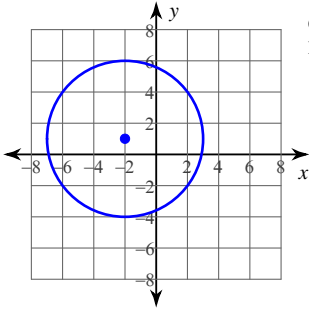


D)



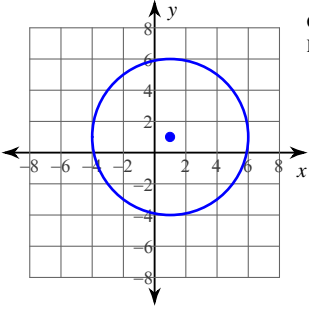
7) $-2y = -4x - y^2 + 20 - x^2$

A)



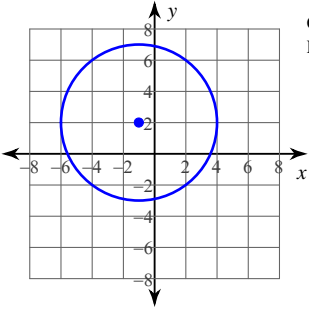
Center: $(-2, 1)$
Radius: 5

B)



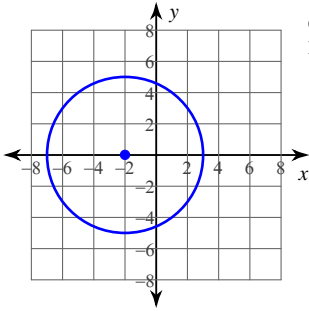
Center: $(1, 1)$
Radius: 5

C)



Center: $(-1, 2)$
Radius: 5

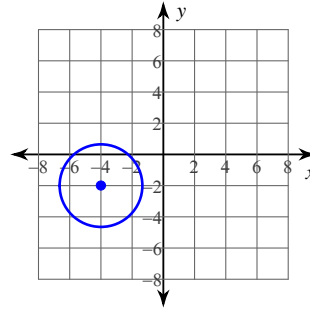
D)



Center: $(-2, 0)$
Radius: 5

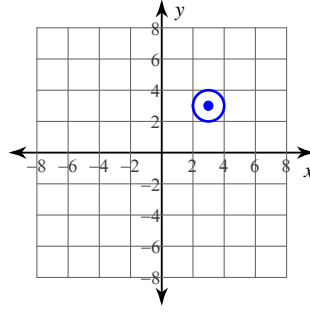
8) $0 = -13 - x^2 - y^2 + 4y - 8x$

A)



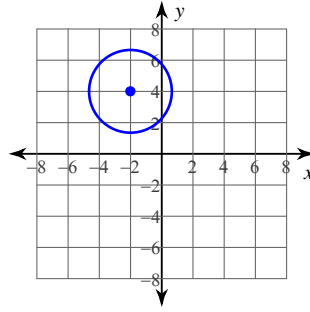
Center: $(-4, -2)$
Radius: $\sqrt{7}$

B)



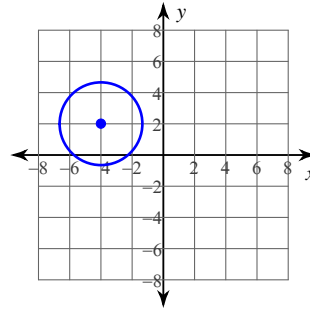
Center: $(3, 3)$
Radius: 1

C)



Center: $(-2, 4)$
Radius: $\sqrt{7}$

D)

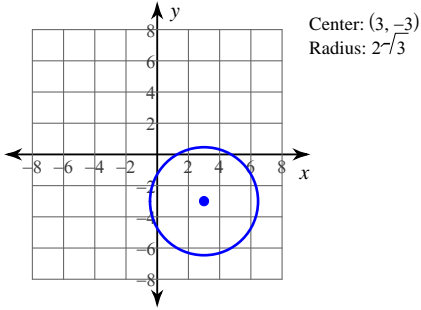


Center: $(-4, 2)$
Radius: $\sqrt{7}$

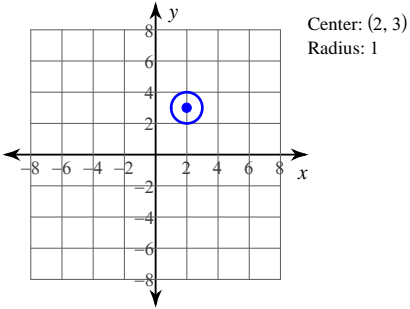


9) $-4x + x^2 + 1 - 6y = -y^2$

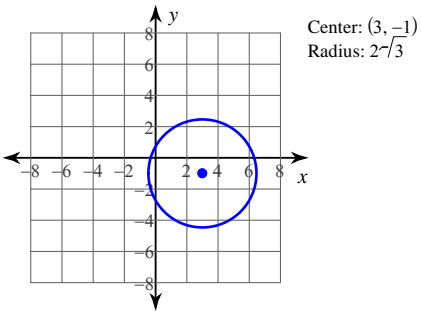
A)



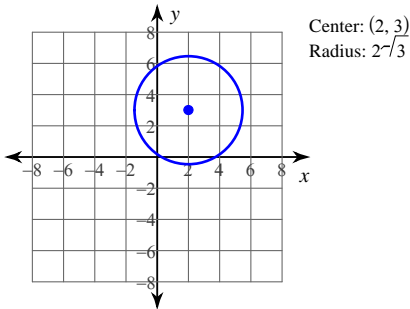
B)



C)

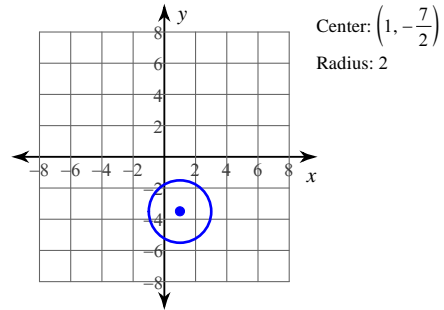


D)

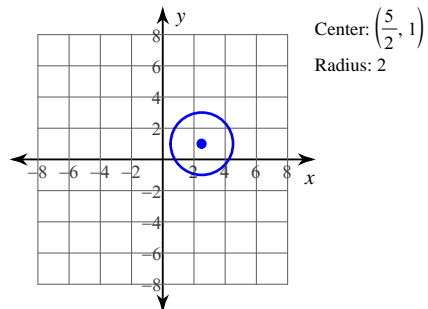


10) $37 = -28y + 8x - 4x^2 - 4y^2$

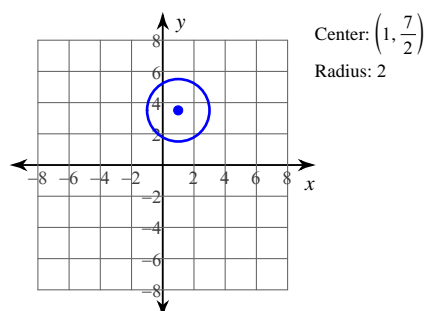
A)



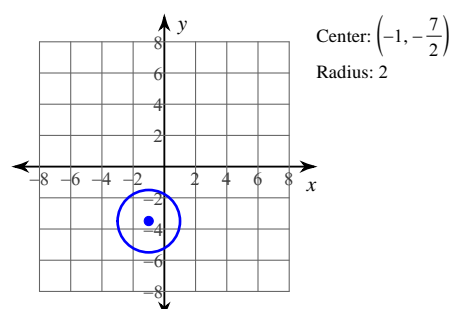
B)



C)

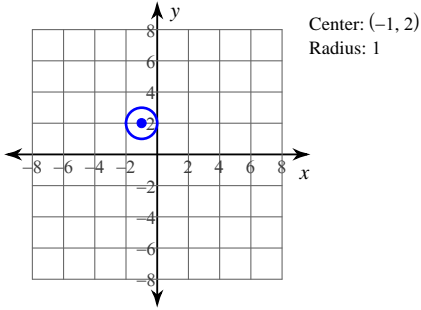


D)

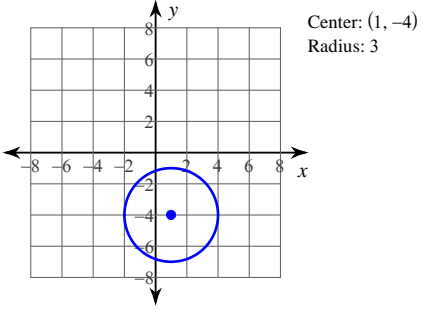


$$11) 2x + y^2 + 8 - 8y = -x^2$$

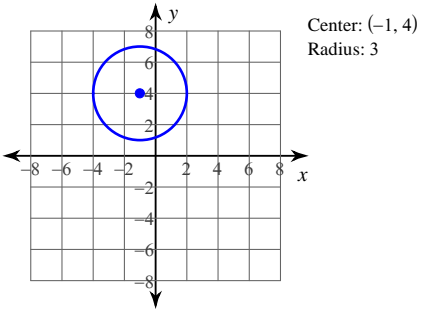
A)



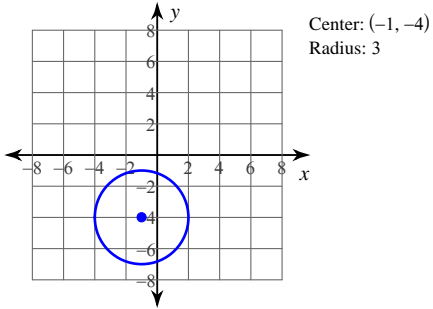
B)



C)

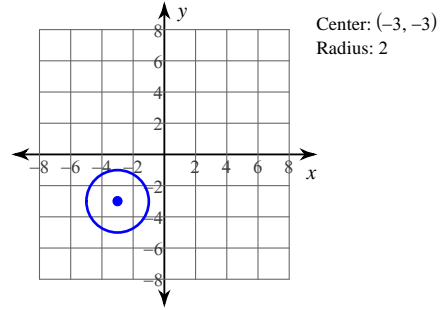


D)

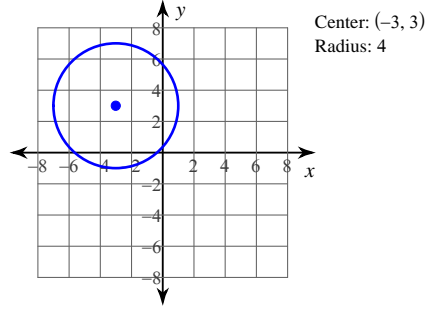


$$12) 6y = -x^2 - 14 - 6x - y^2$$

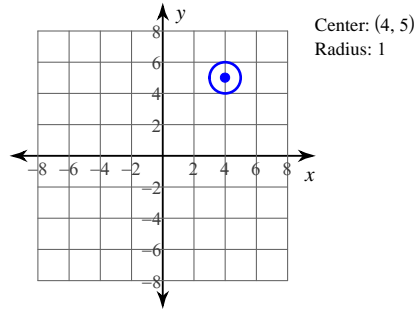
A)



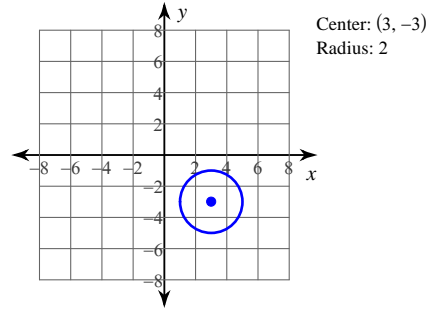
B)



C)

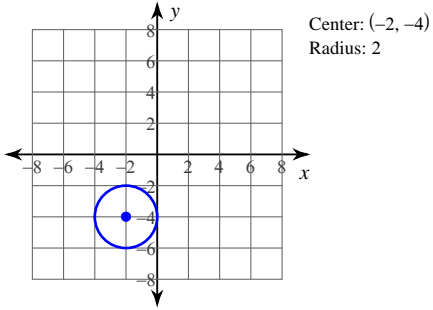


D)

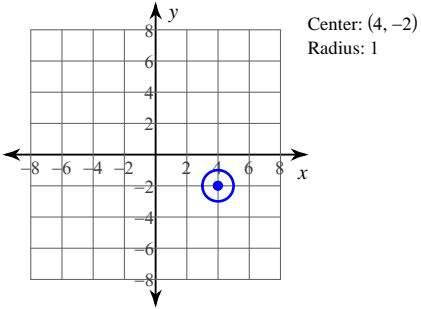


$$13) -8x + 16 + 4y = -y^2 - x^2$$

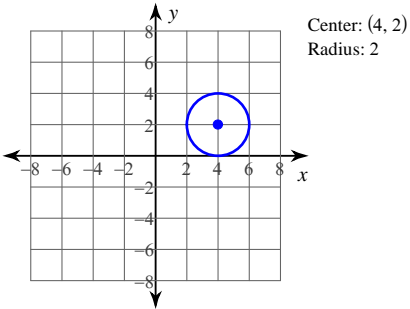
A)



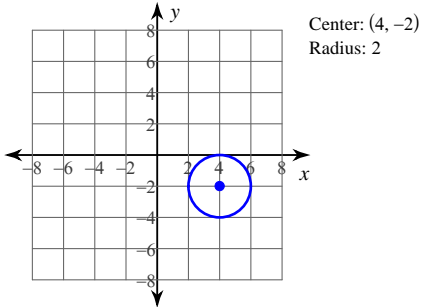
B)



C)

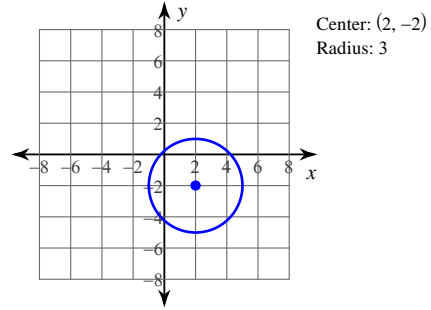


D)

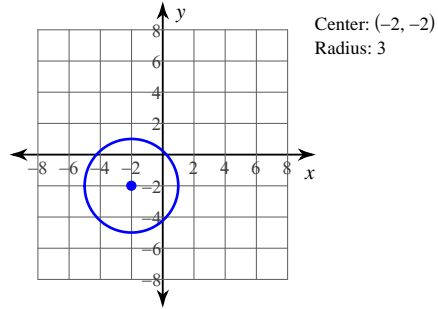


$$14) 4y - 1 + y^2 = -x^2 + 4x$$

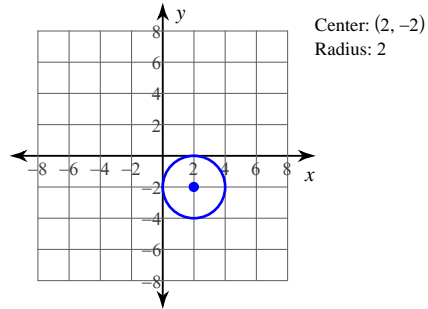
A)



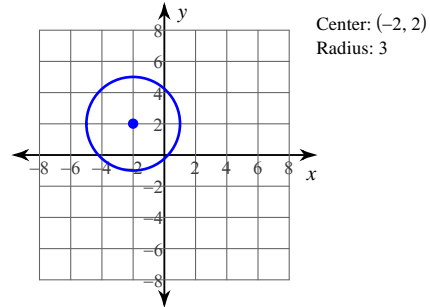
B)



C)

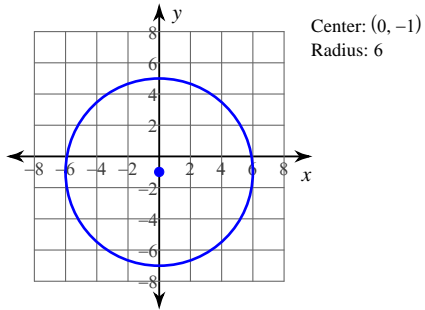


D)

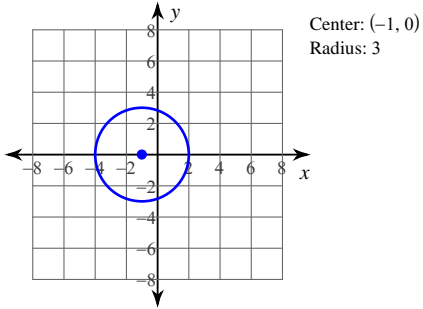


15) $2x + y^2 = -x^2 + 35$

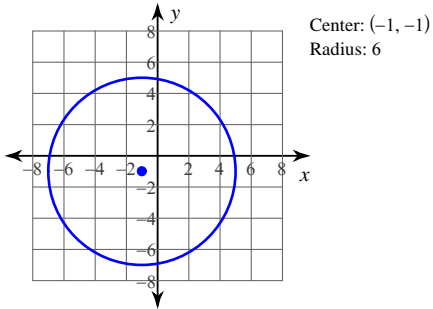
A)



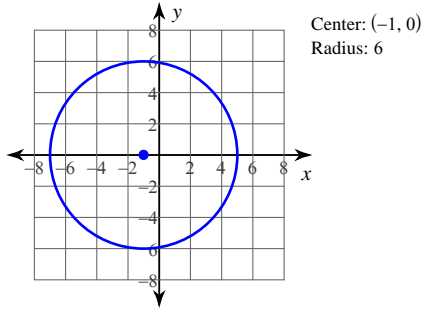
B)



C)

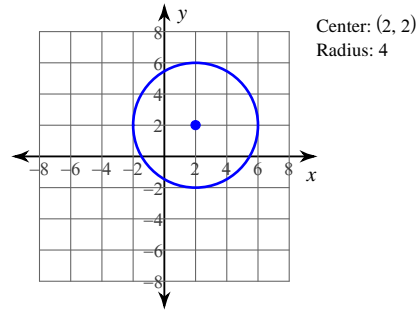


D)

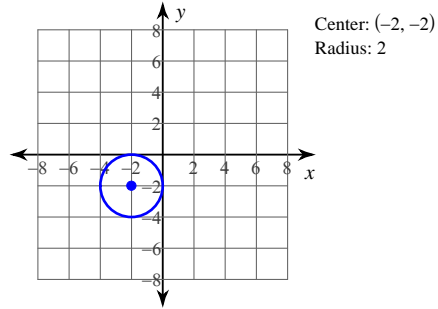


16) $-4y + x^2 - 4x = -4 - y^2$

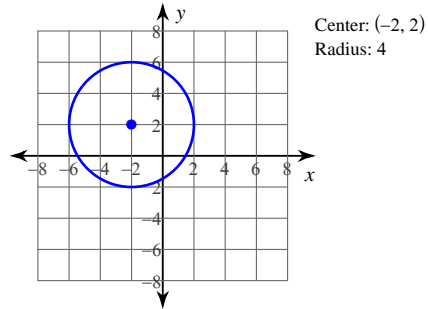
A)



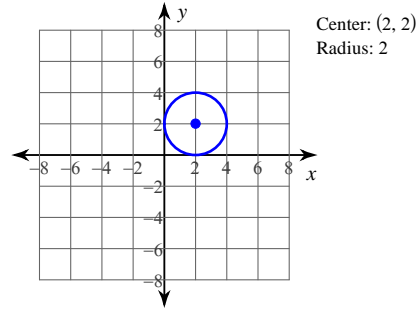
B)



C)

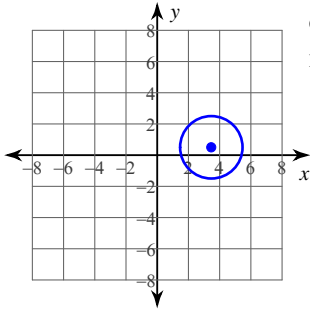


D)



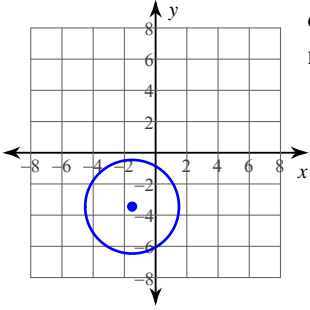
$$17) -16x\sqrt{3} - 4y = -4x^2 - 13 - 4y^2$$

A)



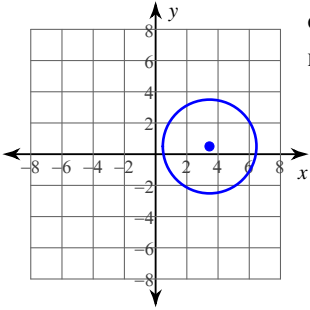
Center: $(2\sqrt{3}, \frac{1}{2})$
Radius: 2

B)



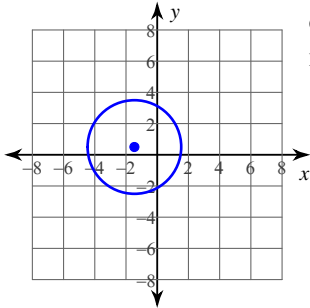
Center: $(-\frac{3}{2}, -2\sqrt{3})$
Radius: 3

C)



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

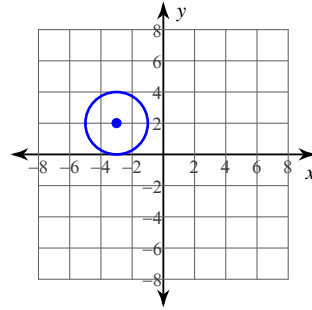
D)



Center: $(-2\sqrt{3} + 2, \frac{1}{2})$
Radius: 3

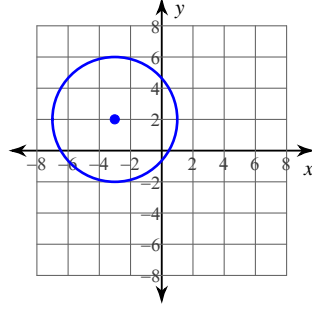
$$18) 9 + y^2 = 6x - x^2 + 4y$$

A)



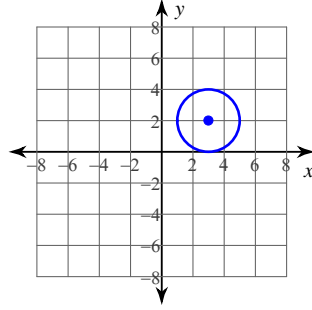
Center: $(-3, 2)$
Radius: 2

B)



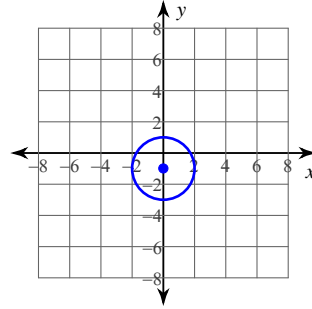
Center: $(-3, 2)$
Radius: 4

C)



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

D)

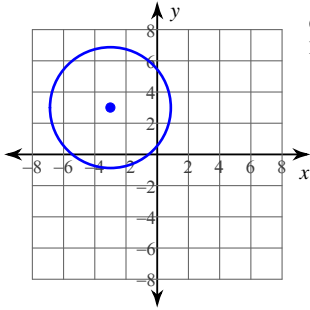


Center: $(0, -1)$
Radius: 2



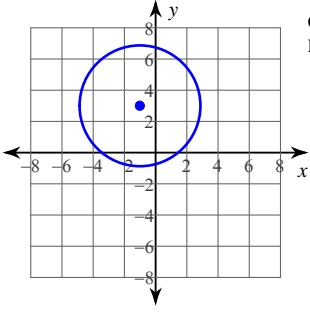
19) $y^2 - 2x = 6y + 5 - x^2$

A)



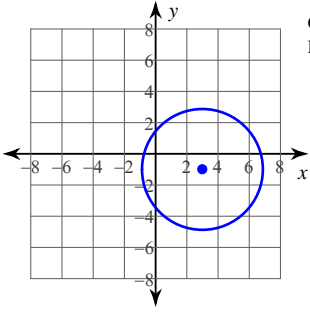
Center: $(-3, 3)$
Radius: $\sqrt{15}$

B)



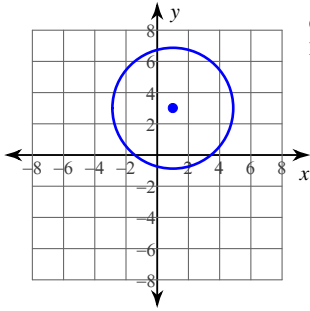
Center: $(-1, 3)$
Radius: $\sqrt{15}$

C)



Center: $(3, -1)$
Radius: $\sqrt{15}$

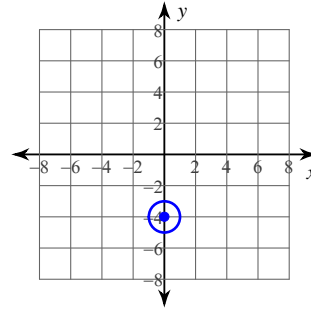
D)



Center: $(1, 3)$
Radius: $\sqrt{15}$

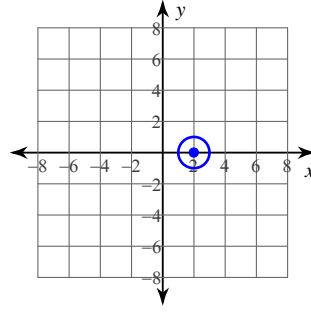
20) $x^2 + 11 + y^2 = 8y$

A)



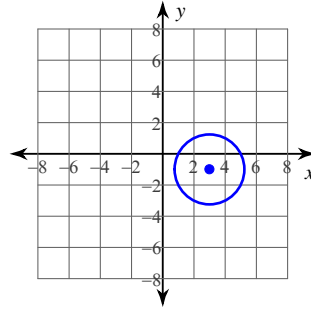
Center: $(0, -4)$
Radius: 1

B)



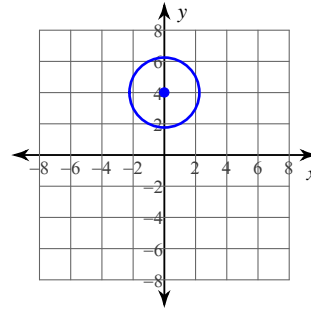
Center: $(2, 0)$
Radius: 1

C)



Center: $(3, -1)$
Radius: $\sqrt{5}$

D)

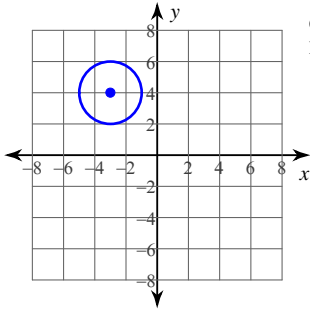


Center: $(0, 4)$
Radius: $\sqrt{5}$



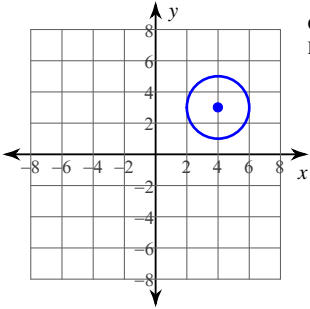
$$21) (x + 3)^2 + (y - 4)^2 = 4$$

A)



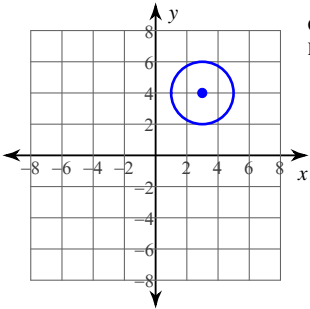
Center: (-3, 4)
Radius: 2

B)



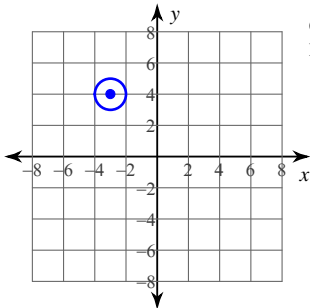
Center: (4, 3)
Radius: 2

C)



Center: (3, 4)
Radius: 2

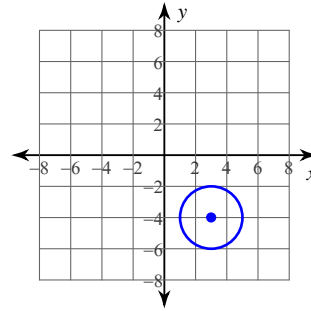
D)



Center: (-3, 4)
Radius: 1

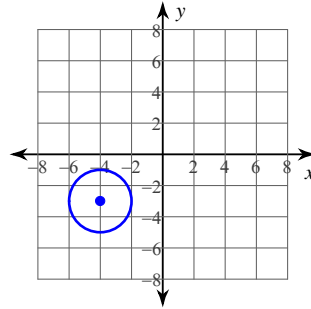
$$22) (x - 4)^2 + (y + 3)^2 = 4$$

A)



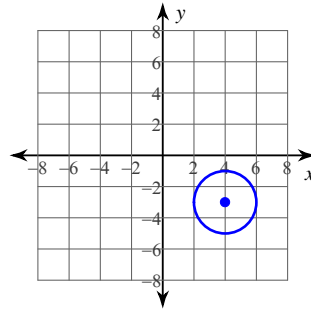
Center: (3, -4)
Radius: 2

B)



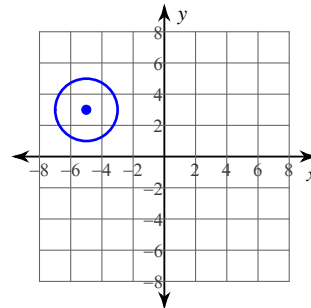
Center: (-4, -3)
Radius: 2

C)



Center: (4, -3)
Radius: 2

D)

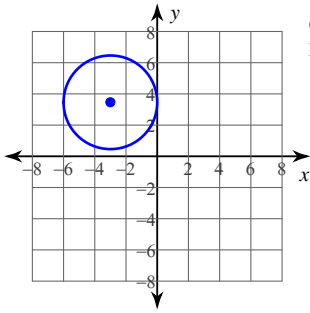


Center: (-5, 3)
Radius: 2



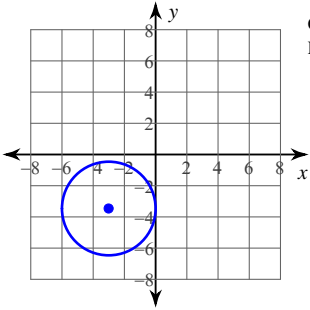
$$23) (x - 3)^2 + (y - 2\sqrt{3})^2 = 9$$

A)



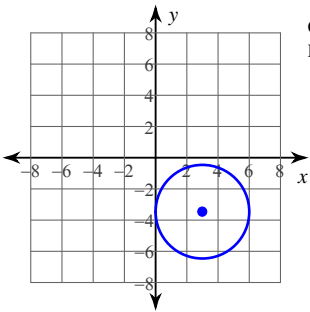
Center: $(-3, 2\sqrt{3})$
Radius: 3

B)



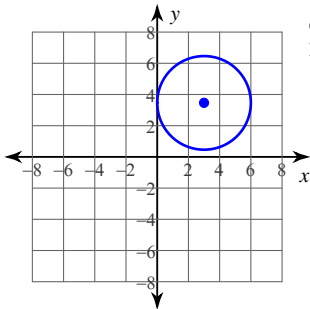
Center: $(-3, -2\sqrt{3})$
Radius: 3

C)



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

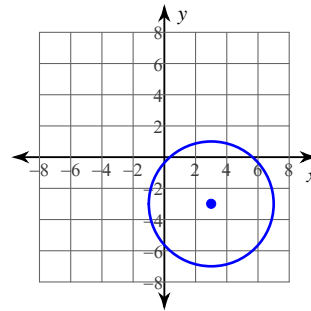
D)



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

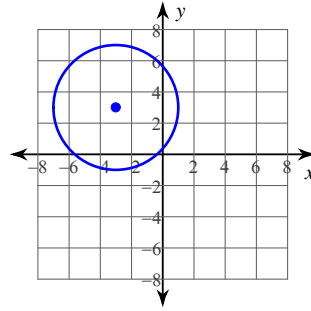
$$24) (x - 3)^2 + (y + 3)^2 = 16$$

A)



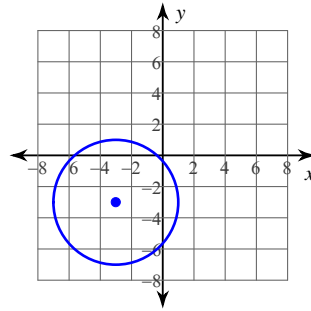
Center: $(3, -3)$
Radius: 4

B)



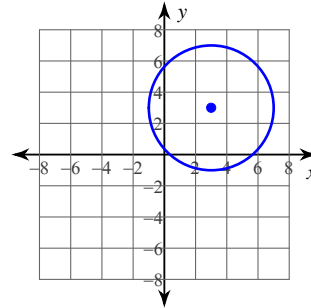
Center: $(-3, 3)$
Radius: 4

C)



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

D)



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



Answers to Assignment (ID: 3)

1) A
5) B
9) D
13) D
17) C
21) A

2) B
6) C
10) A
14) A
18) C
22) C

3) A
7) A
11) C
15) D
19) D
23) D

4) B
8) D
12) A
16) D
20) D
24) A

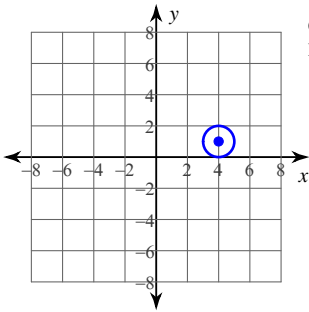


Assignment

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

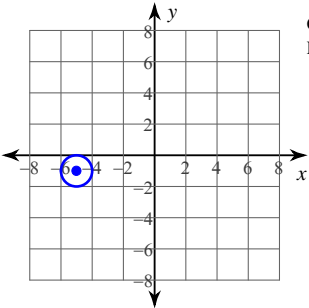
1) $x^2 - 2y - 8x + 16 = -y^2$

A)



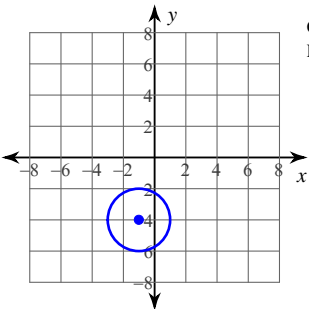
Center: (4, 1)
Radius: 1

B)



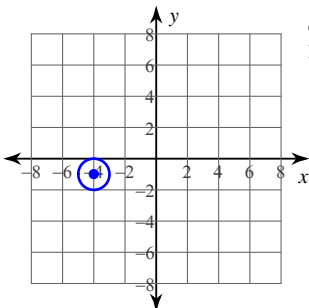
Center: (-5, -1)
Radius: 1

C)



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

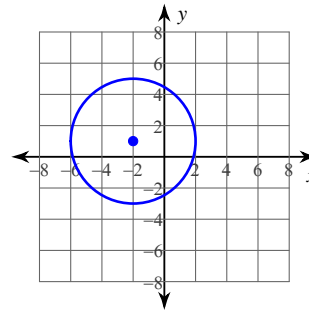
D)



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

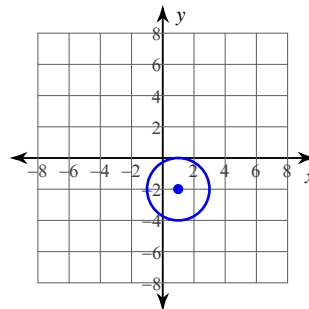
2) $(x + 2)^2 + (y + 1)^2 = 16$

A)



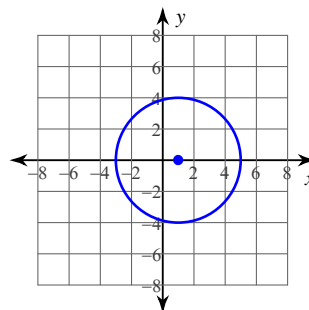
Center: (-2, 1)
Radius: 4

B)



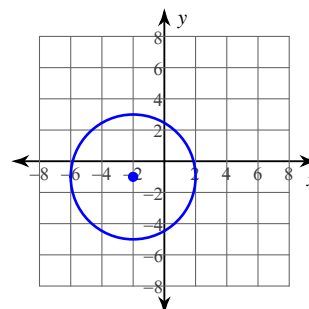
Center: (1, -2)
Radius: 2

C)



Center: (1, 0)
Radius: 4

D)

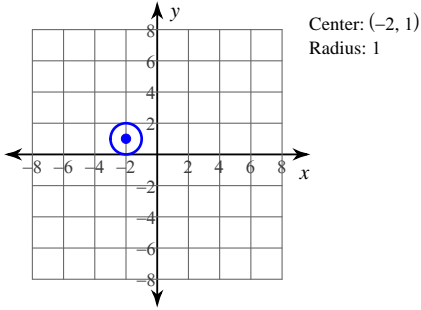


Center: (-2, -1)
Radius: 4

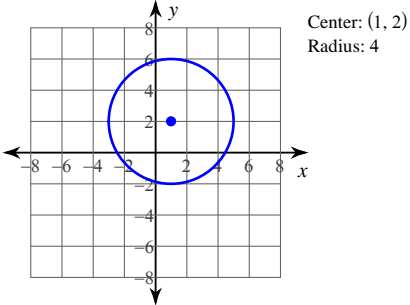


3) $1 - 4y - 2x = -y^2 - x^2$

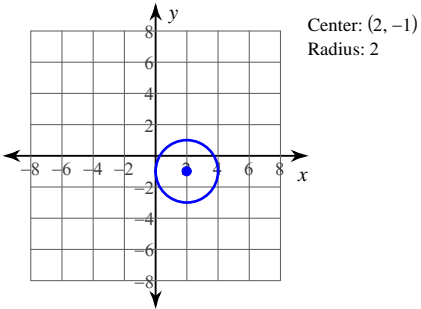
A)



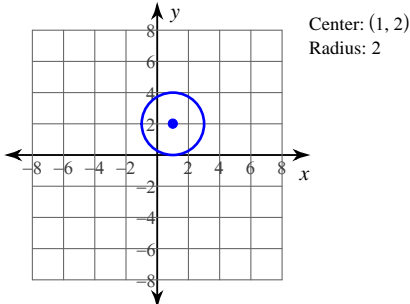
B)



C)

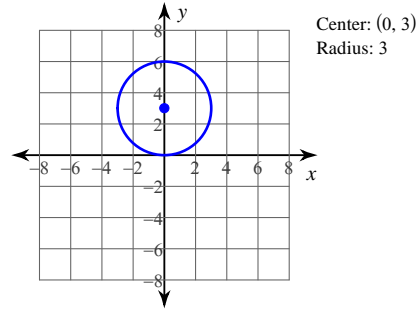


D)

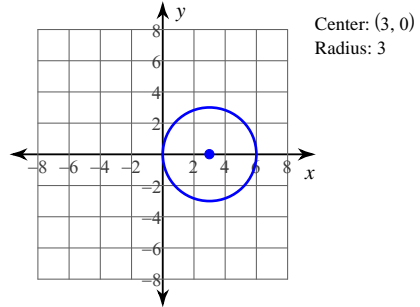


4) $(x + 3)^2 + y^2 = 9$

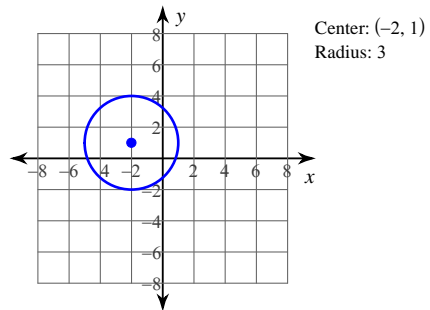
A)



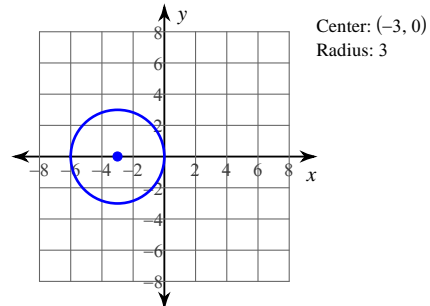
B)



C)

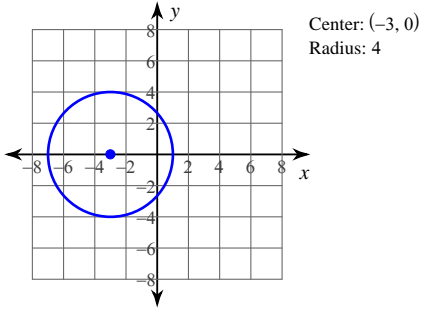


D)

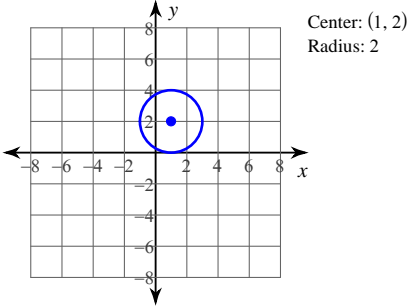


5) $y^2 + x^2 = 6y - 5$

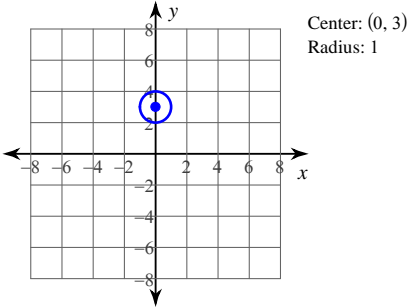
A)



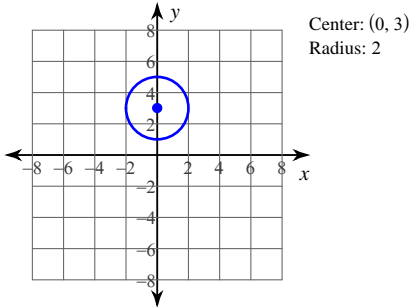
B)



C)

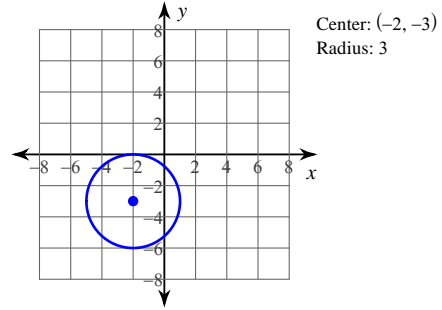


D)

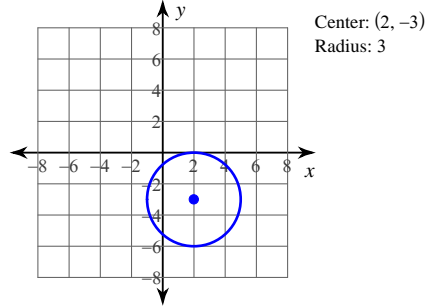


6) $y^2 + 4x - 6y = -4 - x^2$

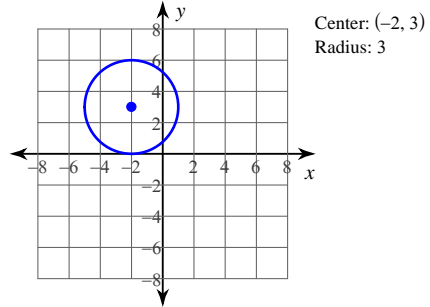
A)



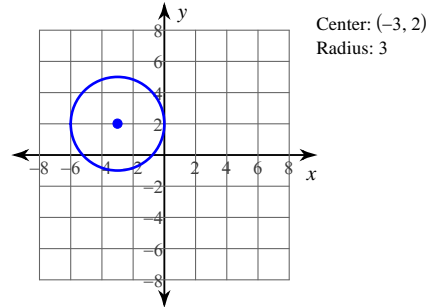
B)



C)

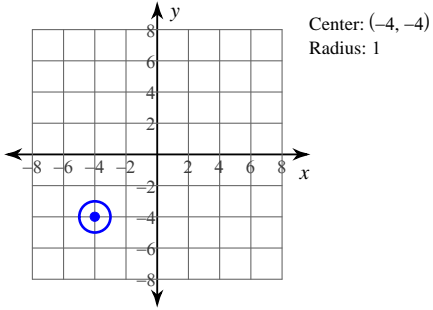


D)

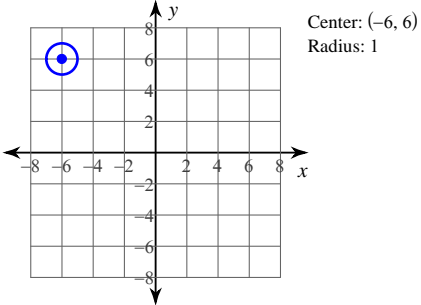


7) $8x + 8y = -31 - y^2 - x^2$

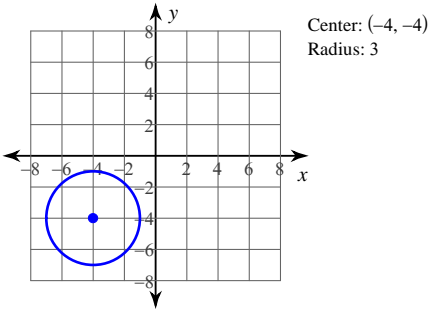
A)



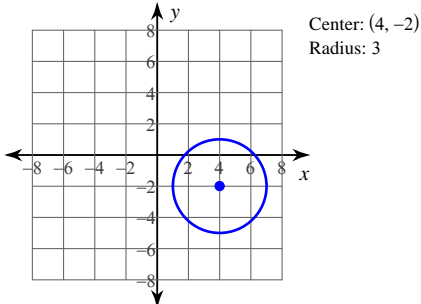
B)



C)

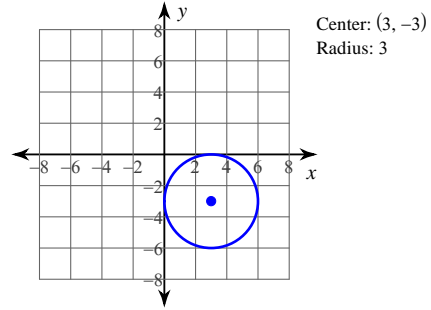


D)

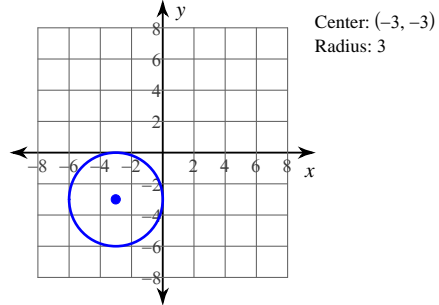


8) $9 + y^2 = -x^2 - 6y + 6x$

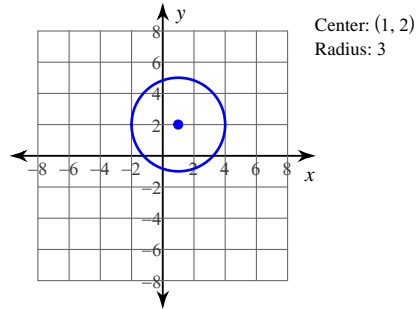
A)



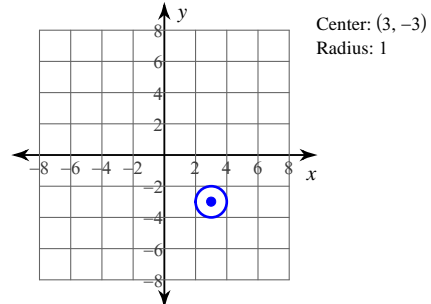
B)



C)

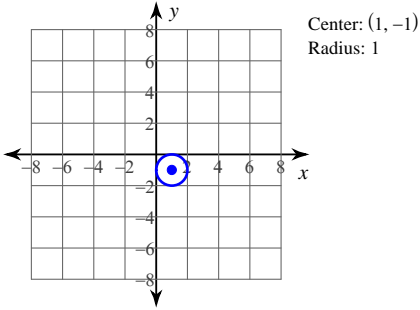


D)

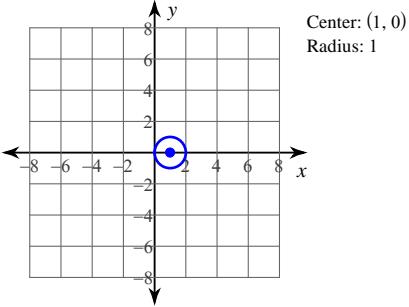


9) $9 + y^2 - 2x = -6y - x^2$

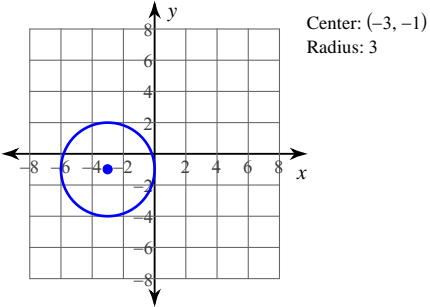
A)



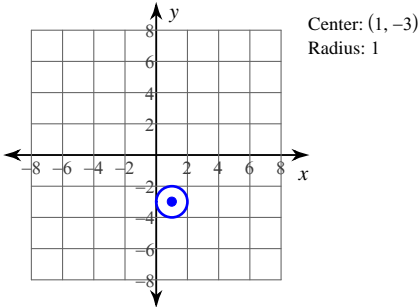
B)



C)

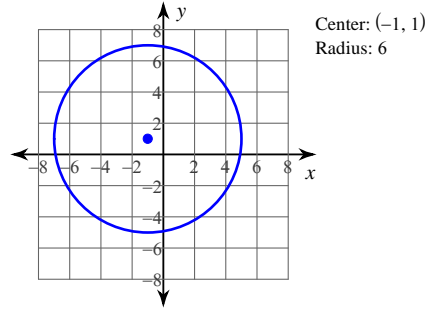


D)

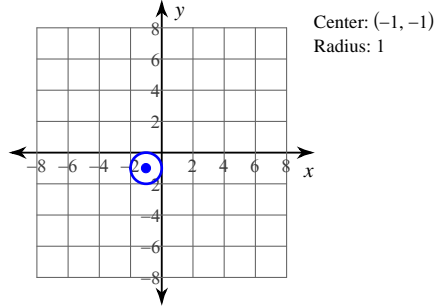


10) $2x + 2y - 34 = -x^2 - y^2$

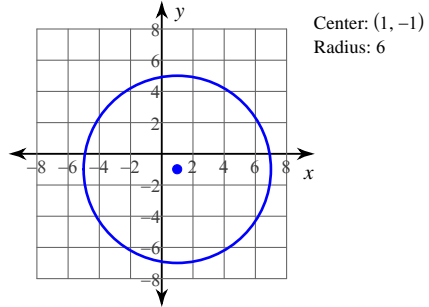
A)



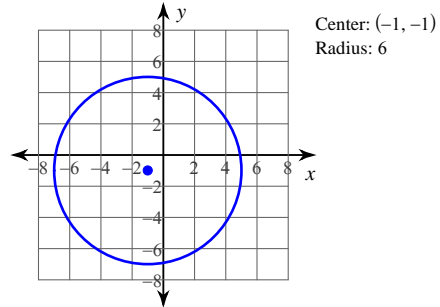
B)



C)

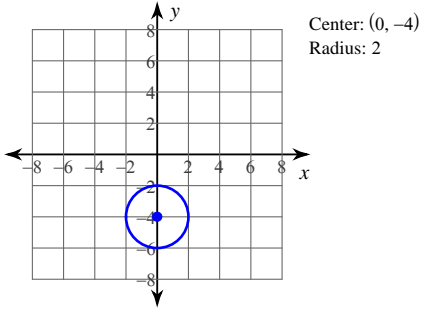


D)

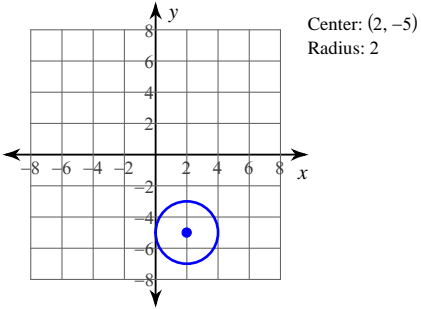


11) $-8x + 12 + y^2 = -x^2$

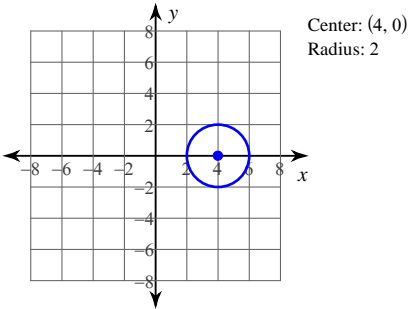
A)



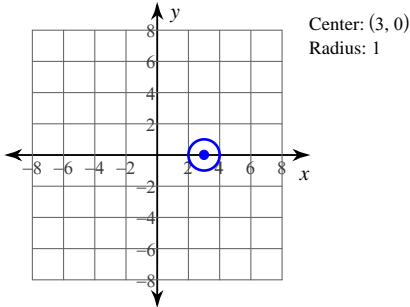
B)



C)

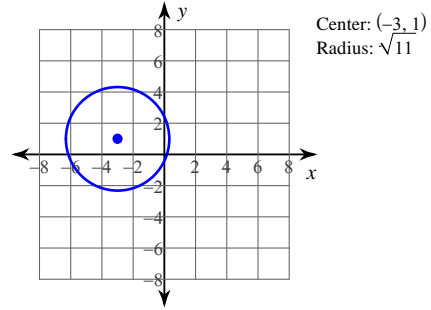


D)

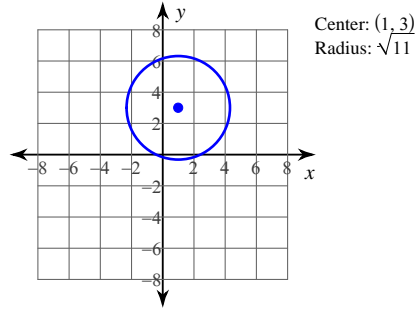


12) $2y + y^2 = 1 - x^2 - 6x$

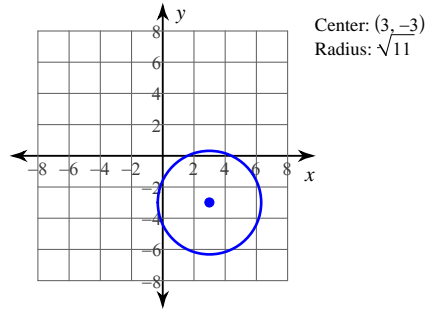
A)



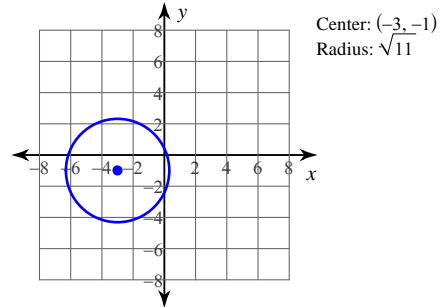
B)



C)

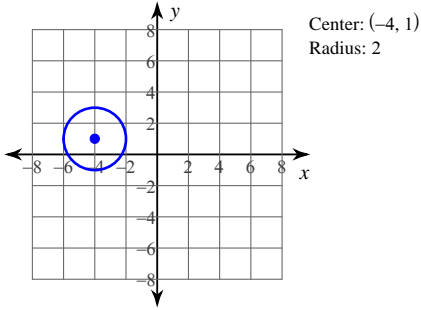


D)

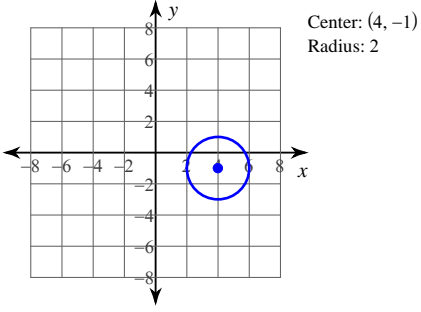


13) $y^2 + x^2 - 8x + 13 = -2y$

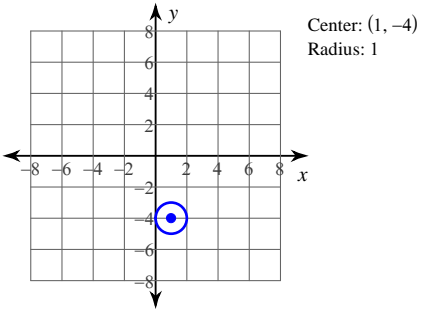
A)



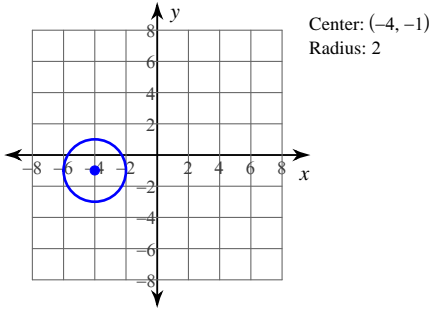
B)



C)

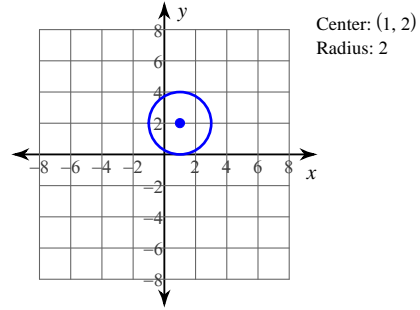


D)

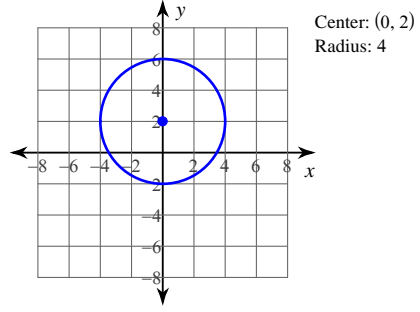


14) $y^2 = -x^2 + 4y$

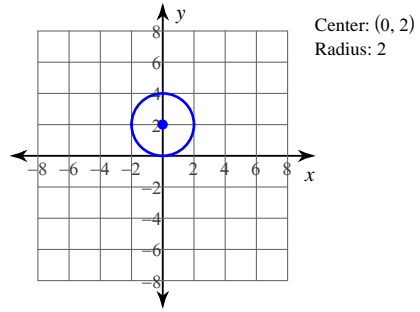
A)



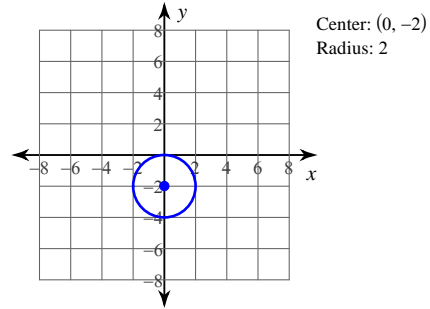
B)



C)

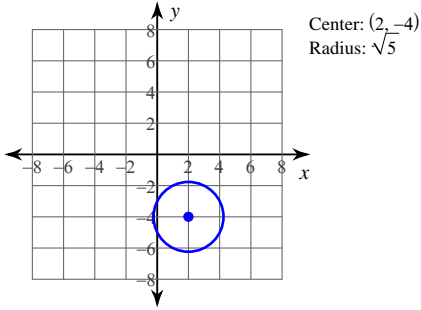


D)

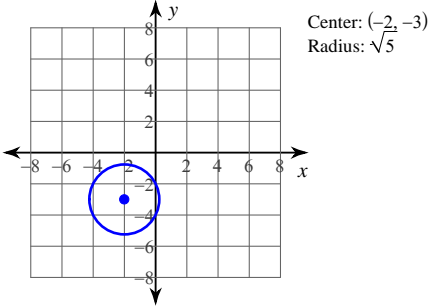


15) $y^2 + x^2 = -8y + 4x - 15$

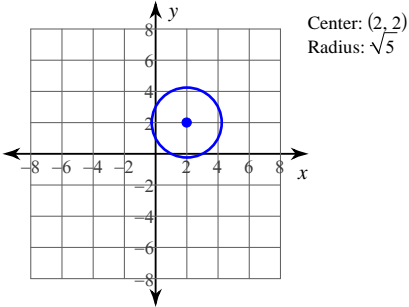
A)



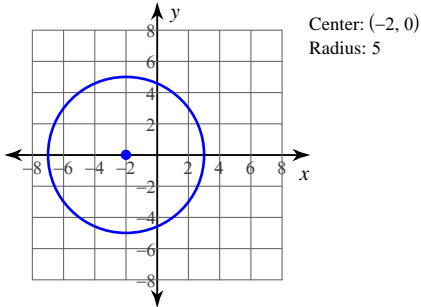
B)



C)

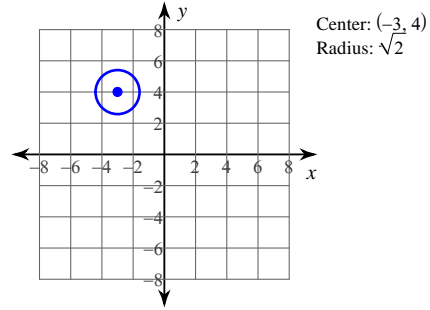


D)

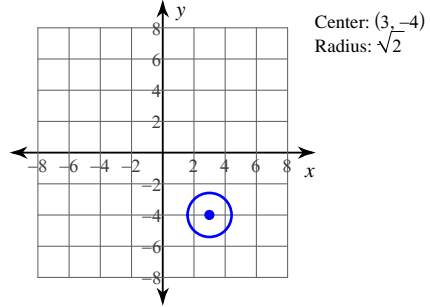


16) $23 + y^2 + 8y = -x^2 + 6x$

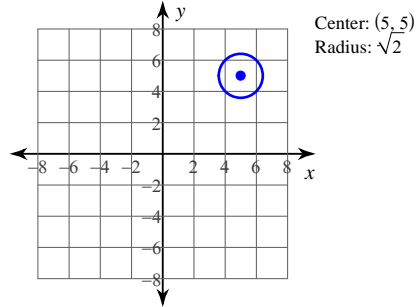
A)



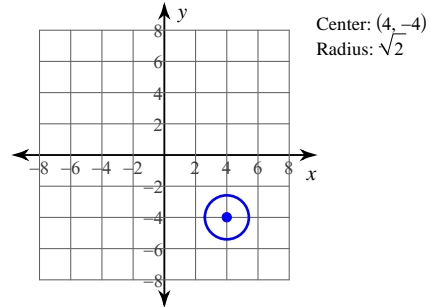
B)



C)

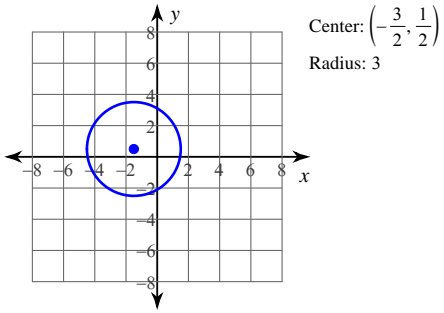


D)

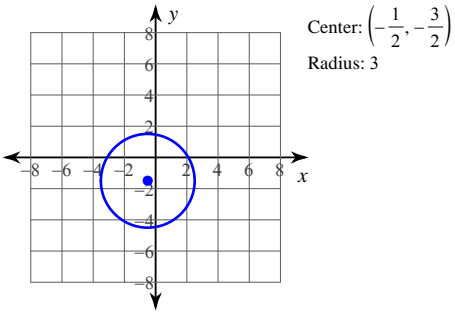


17) $2x^2 = 2y - 2y^2 - 6x - 3$

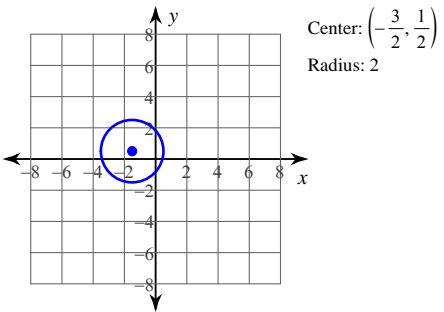
A)



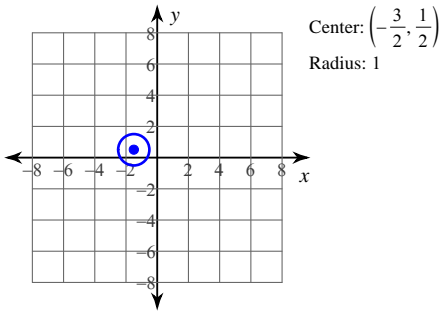
B)



C)

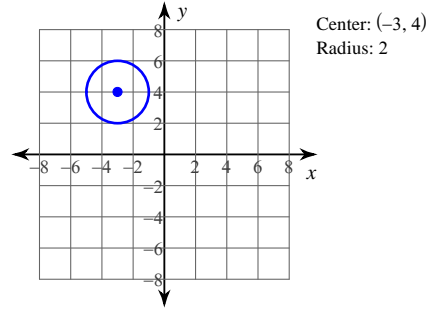


D)

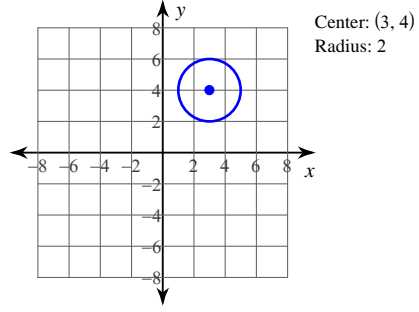


18) $-6y + x^2 = -y^2 - 8x - 21$

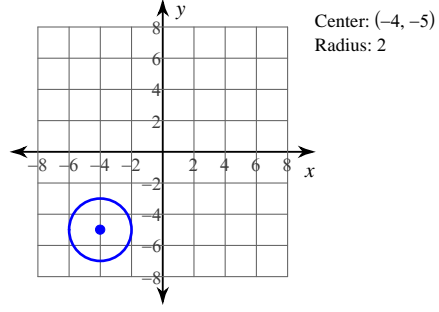
A)



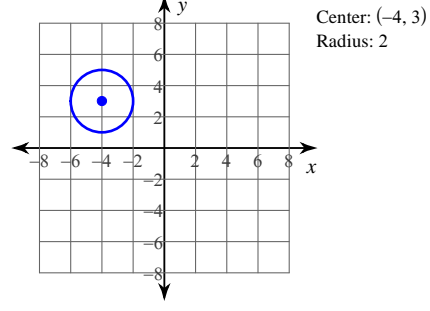
B)



C)

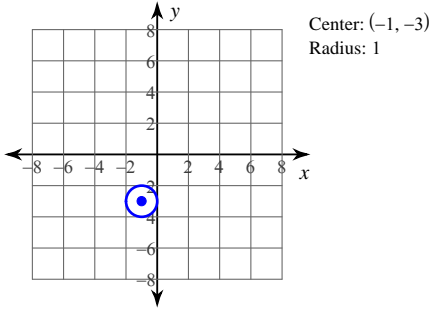


D)

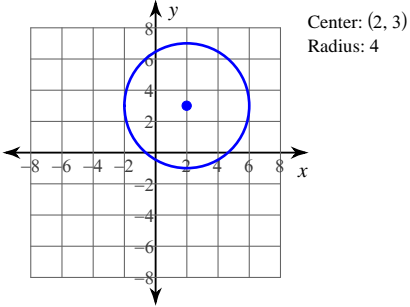


19) $6y + 6 + 2x + y^2 = -x^2$

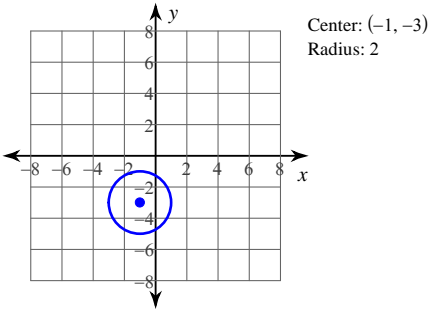
A)



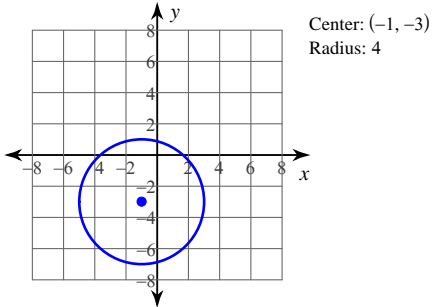
B)



C)

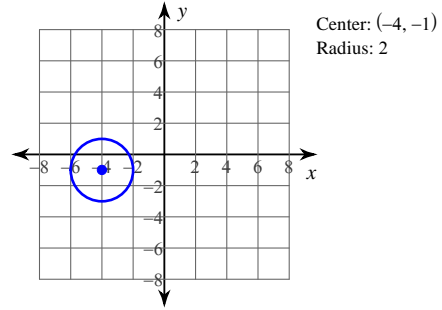


D)

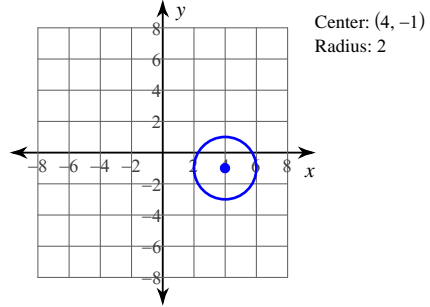


20) $x^2 + 2y + y^2 = -13 - 8x$

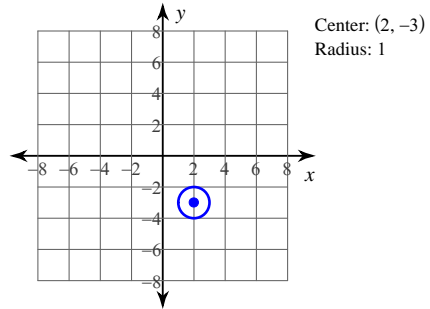
A)



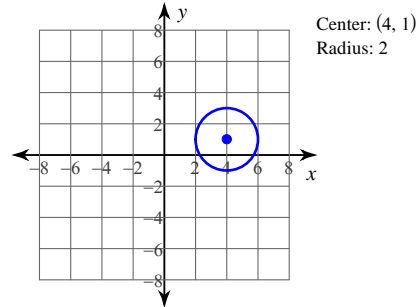
B)



C)

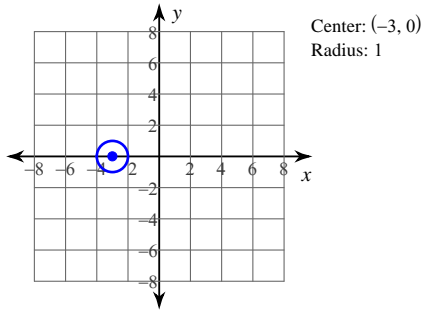


D)

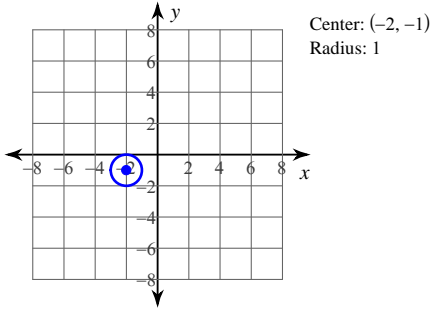


$$21) y^2 - 6x = -4 - x^2$$

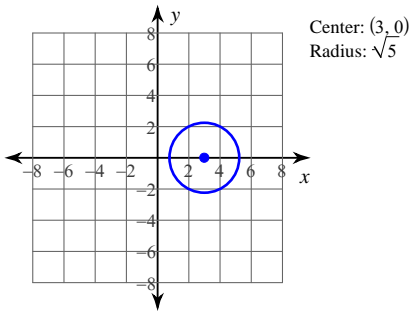
A)



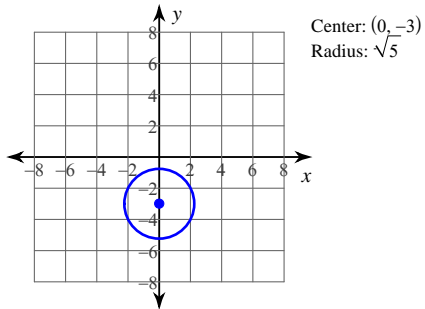
B)



C)

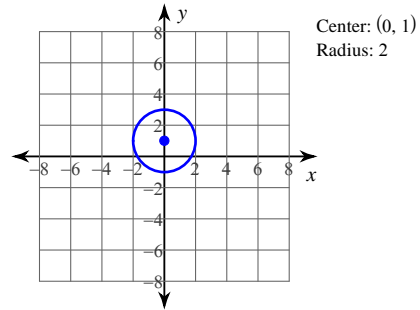


D)

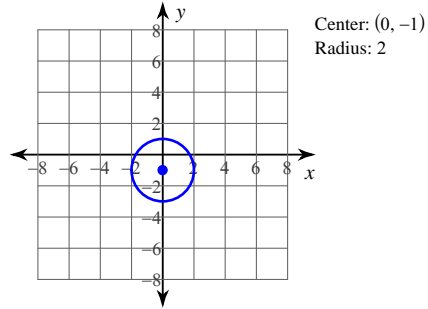


$$22) -3 + y^2 = 2y - x^2$$

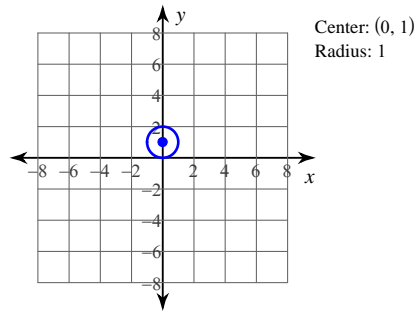
A)



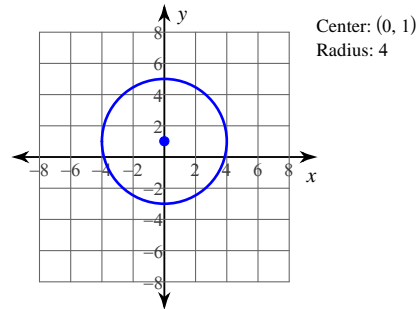
B)



C)

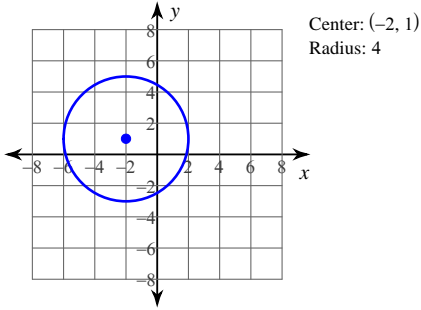


D)

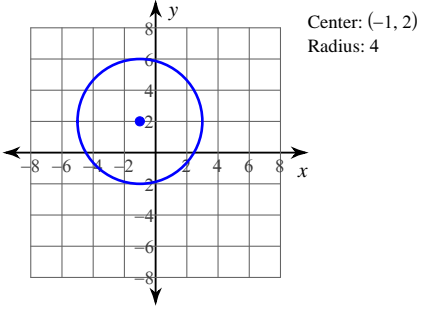


$$23) -4y + x^2 = -y^2 - 2x + 11$$

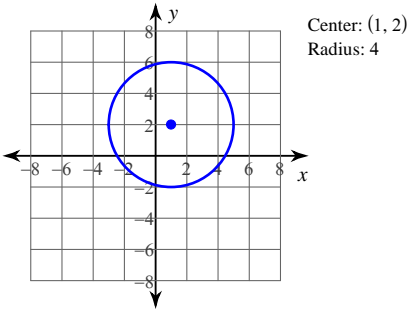
A)



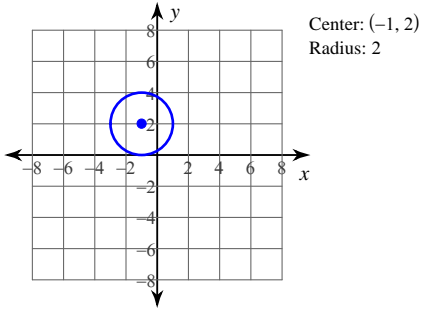
B)



C)

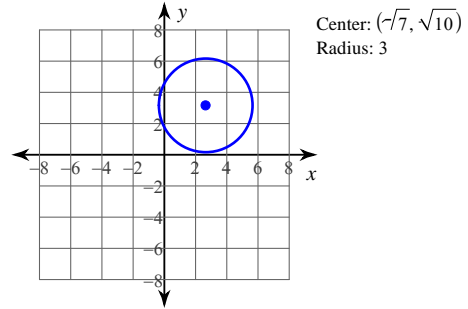


D)

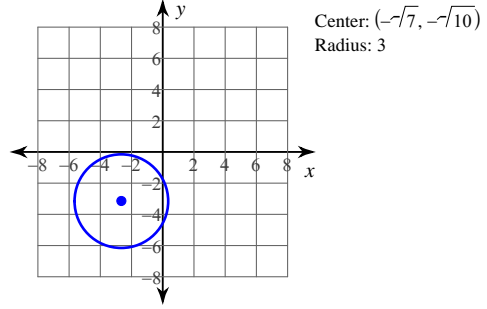


$$24) -2x\sqrt{7} + y^2 + x^2 - 2y\sqrt{10} = -8$$

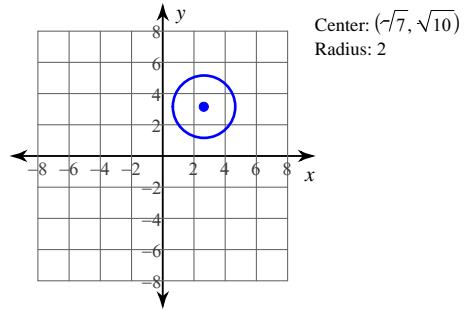
A)



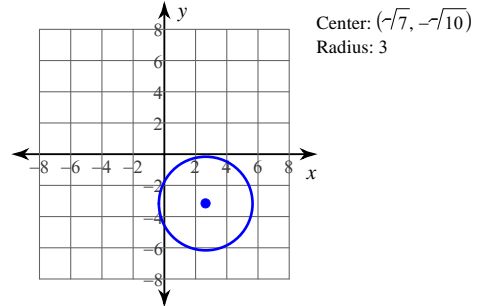
B)



C)



D)



Answers to Assignment (ID: 4)

- 1) A
- 5) D
- 9) D
- 13) B
- 17) D
- 21) C

- 2) D
- 6) C
- 10) D
- 14) C
- 18) D
- 22) A

- 3) D
- 7) A
- 11) C
- 15) A
- 19) C
- 23) B

- 4) D
- 8) A
- 12) D
- 16) B
- 20) A
- 24) A

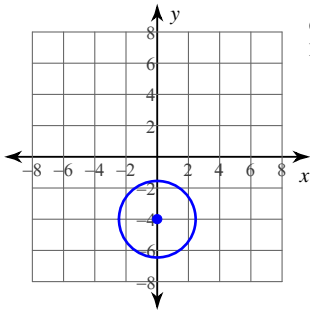


Assignment

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

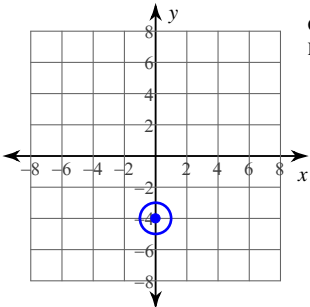
1) $x^2 + (y + 4)^2 = 6$

A)



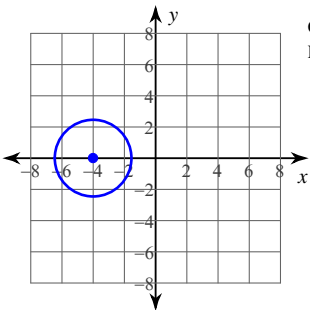
Center: $(0, -4)$
Radius: $\sqrt{6}$

B)



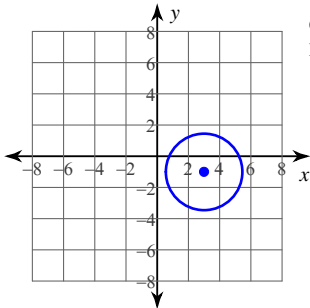
Center: $(0, -4)$
Radius: 1

C)



Center: $(-4, 0)$
Radius: $\sqrt{6}$

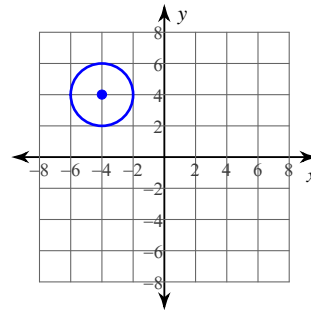
D)



Center: $(3, -1)$
Radius: $\sqrt{6}$

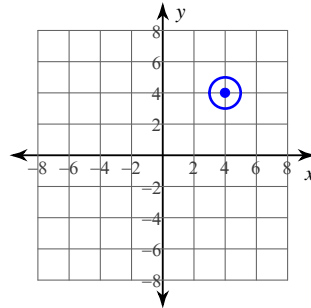
2) $y^2 - 8y = -x^2 + 8x - 31$

A)



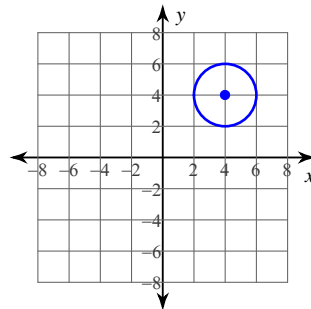
Center: $(-4, 4)$
Radius: 2

B)



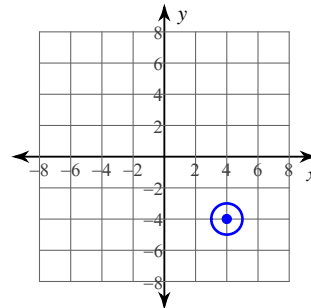
Center: $(4, 4)$
Radius: 1

C)



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

D)

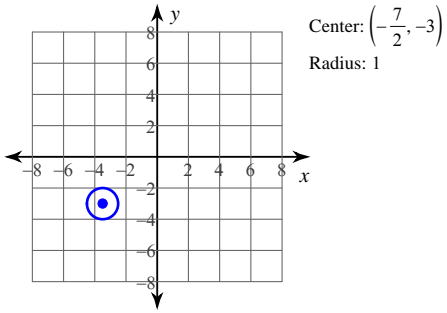


Center: $(4, -4)$
Radius: 1

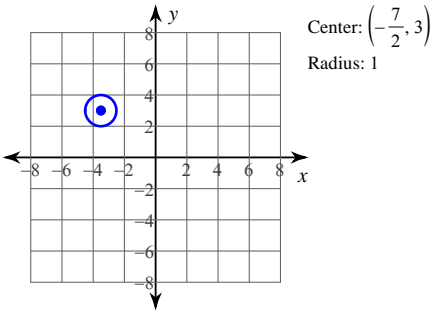


$$3) -24y + 4y^2 + 4x^2 + 81 = -28x$$

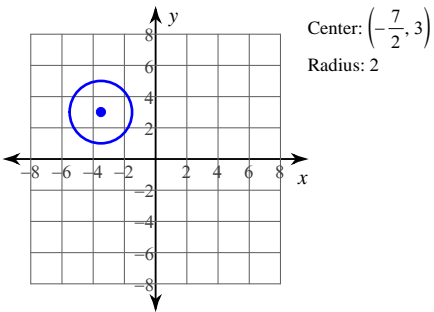
A)



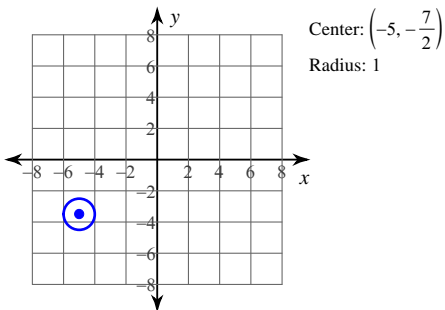
B)



C)

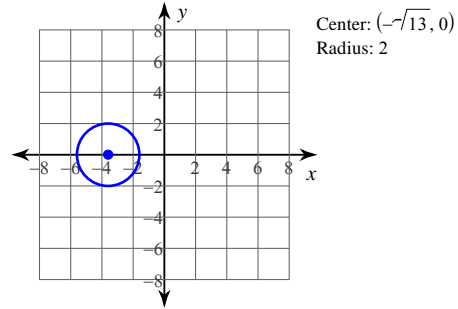


D)

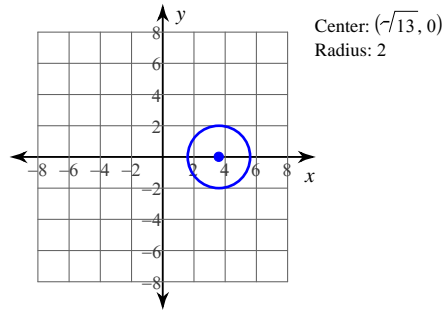


$$4) y^2 - 2x\sqrt{13} + x^2 = -9$$

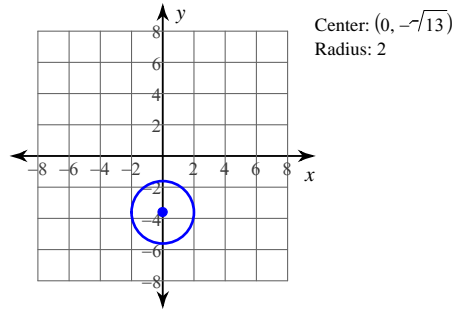
A)



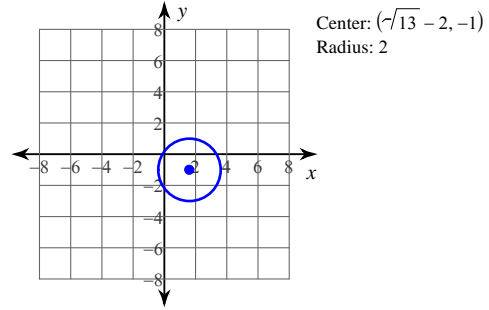
B)



C)

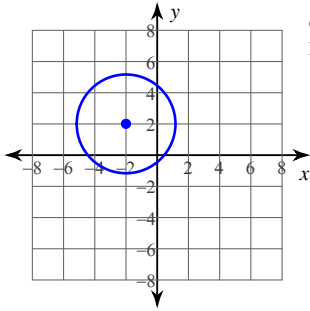


D)



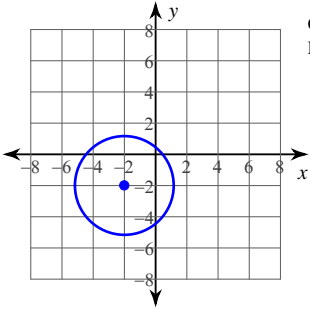
5) $(x + 2)^2 + (y + 2)^2 = 10$

A)



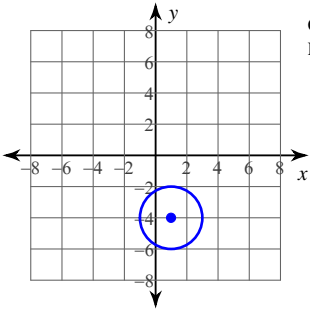
Center: $(-2, 2)$
Radius: $\sqrt{10}$

B)



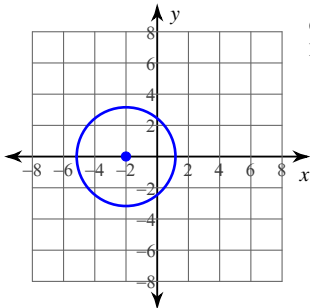
Center: $(-2, -2)$
Radius: $\sqrt{10}$

C)



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

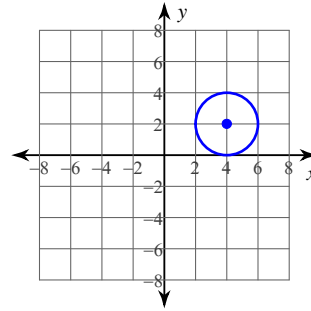
D)



Center: $(-2, 0)$
Radius: $\sqrt{10}$

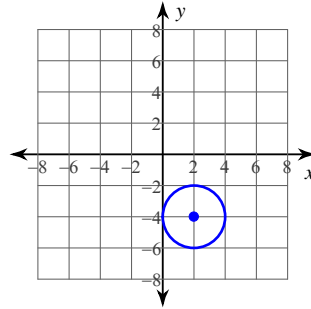
6) $(x + 4)^2 + (y + 2)^2 = 4$

A)



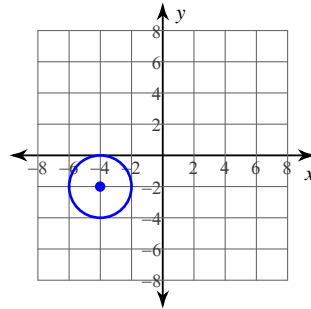
Center: $(4, 2)$
Radius: 2

B)



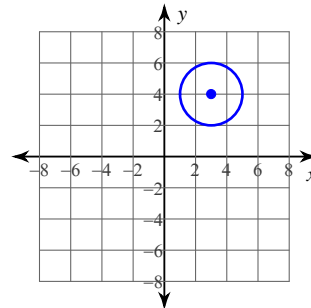
Center: $(2, -4)$
Radius: 2

C)



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

D)

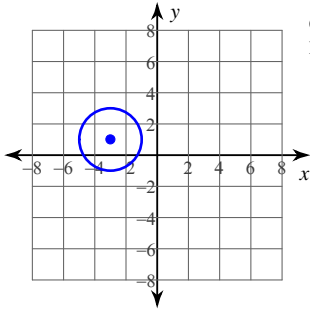


Center: $(3, 4)$
Radius: 2



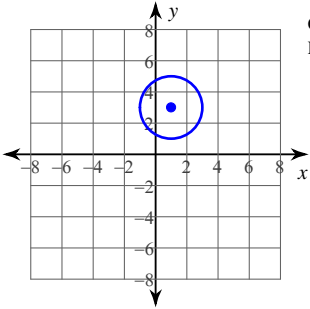
$$7) (x - 3)^2 + (y + 1)^2 = 4$$

A)



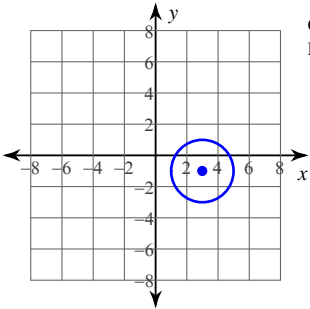
Center: (-3, 1)
Radius: 2

B)



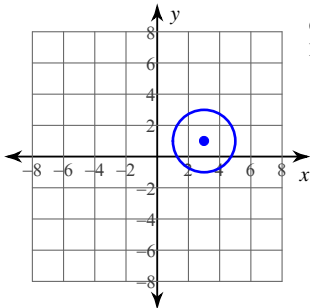
Center: (1, 3)
Radius: 2

C)



Center: (3, -1)
Radius: 2

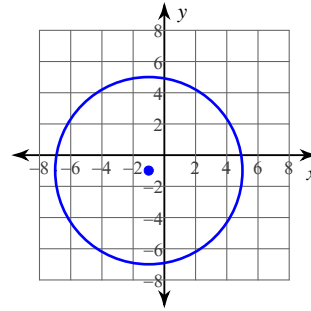
D)



Center: (3, 1)
Radius: 2

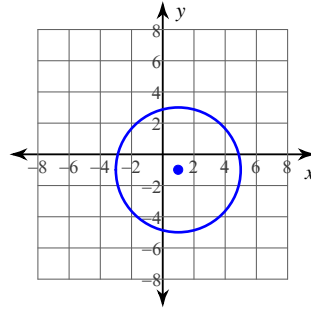
$$8) (x - 1)^2 + (y + 1)^2 = 36$$

A)



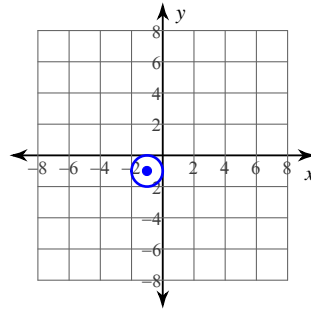
Center: (-1, -1)
Radius: 6

B)



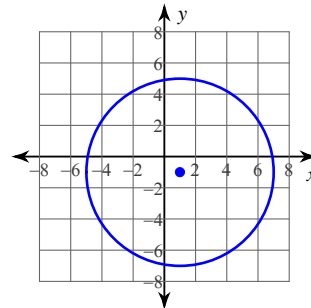
Center: (1, -1)
Radius: 4

C)



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

D)

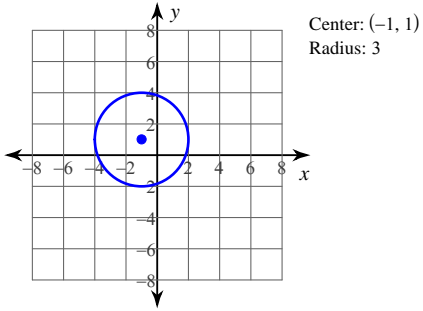


Center: (1, -1)
Radius: 6

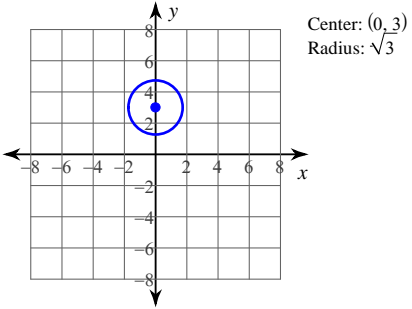


9) $(x + 1)^2 + (y - 1)^2 = 3$

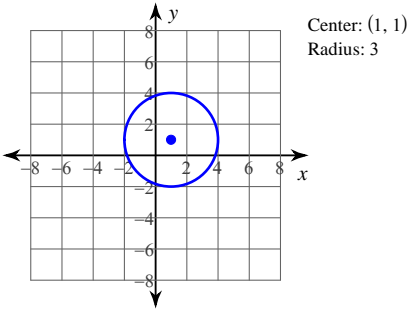
A)



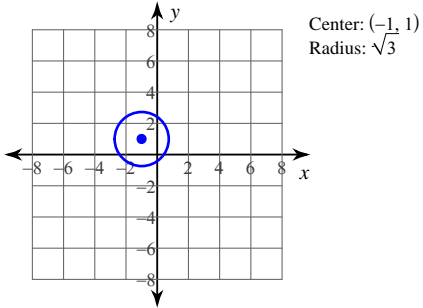
B)



C)

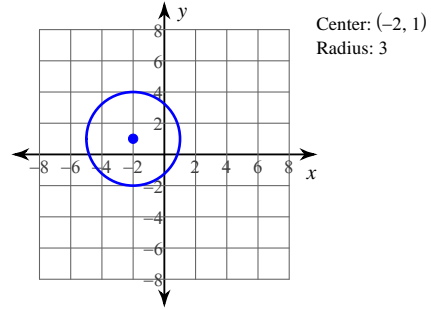


D)

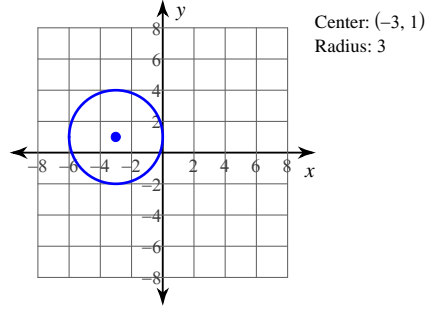


10) $1 = -y^2 - 6x + 2y - x^2$

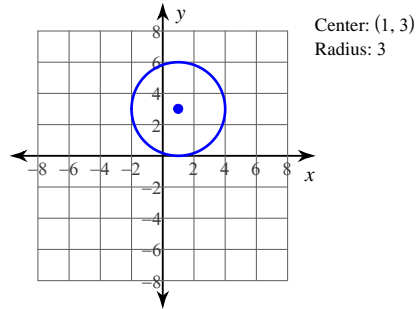
A)



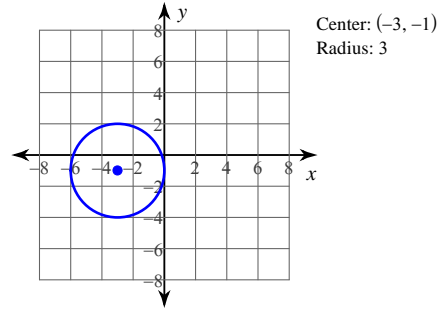
B)



C)

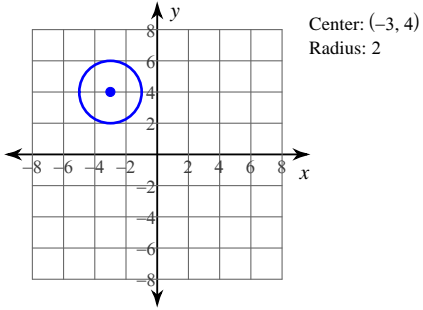


D)

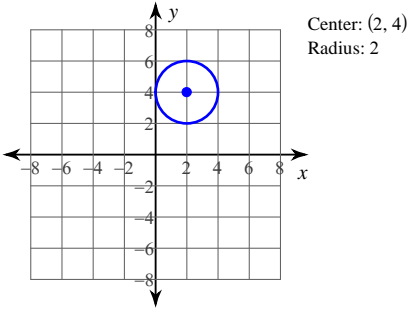


$$11) -8y - 4x = -16 - y^2 - x^2$$

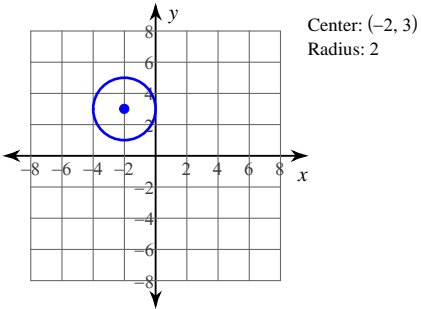
A)



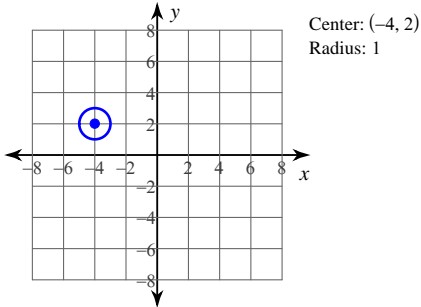
B)



C)

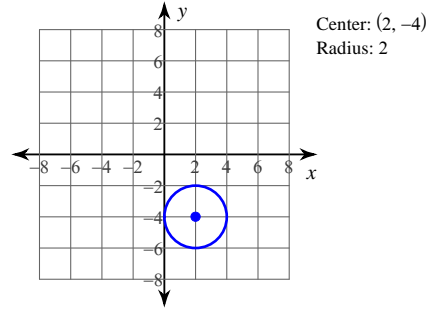


D)

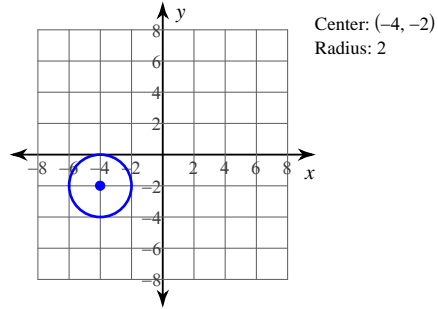


$$12) y^2 - 8x - 4y + x^2 + 16 = 0$$

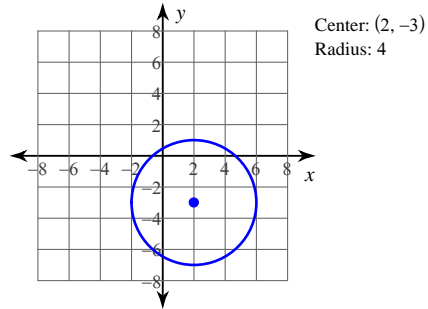
A)



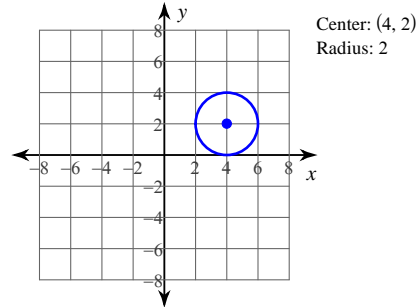
B)



C)

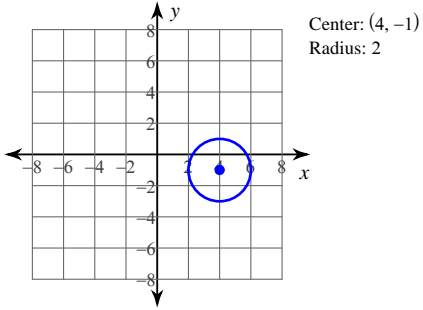


D)

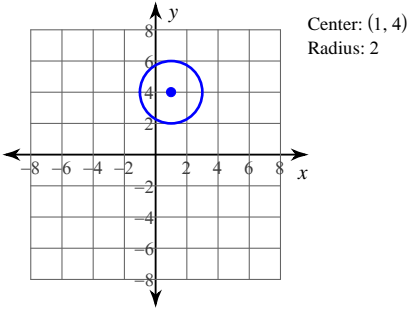


$$13) -8y + y^2 = -x^2 + 2x - 13$$

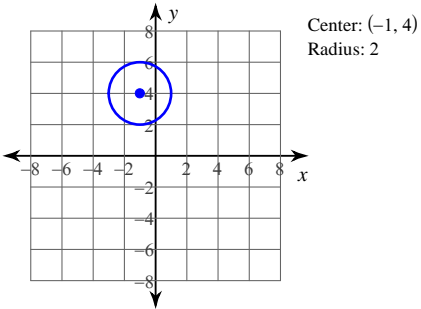
A)



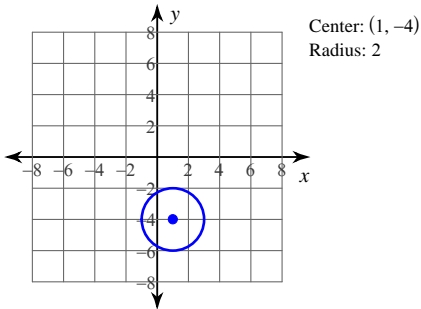
B)



C)

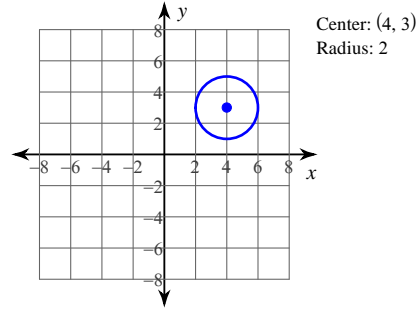


D)

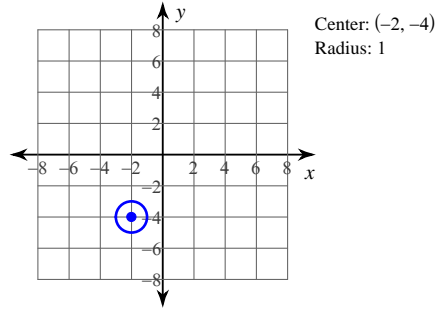


$$14) 19 + x^2 = -4x - 8y - y^2$$

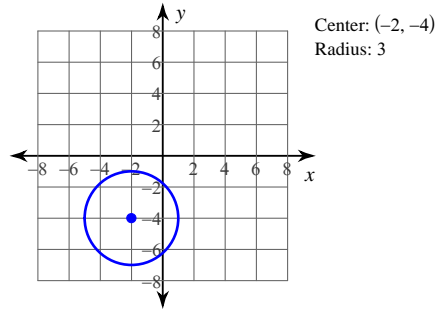
A)



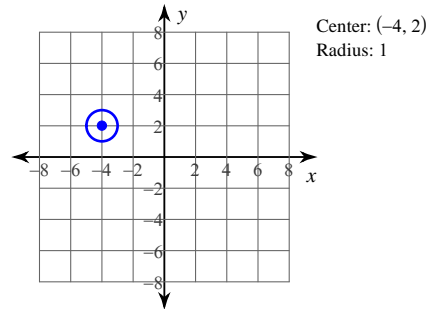
B)



C)

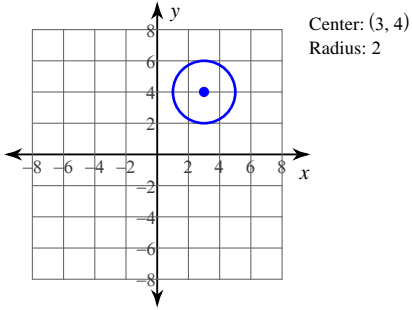


D)

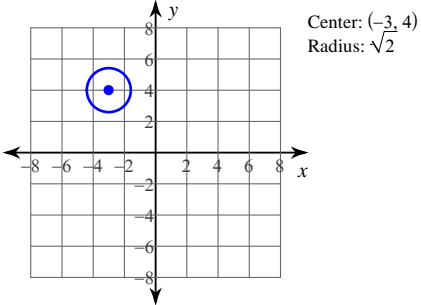


15) $6y + 23 + y^2 + 8x = -x^2$

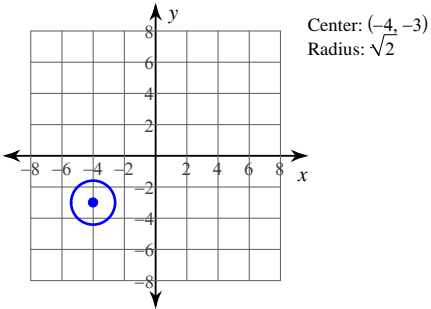
A)



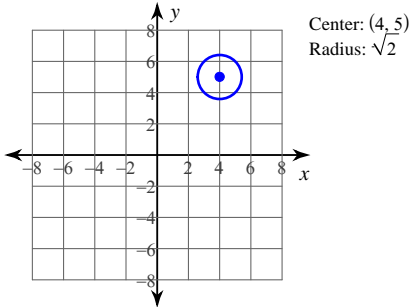
B)



C)

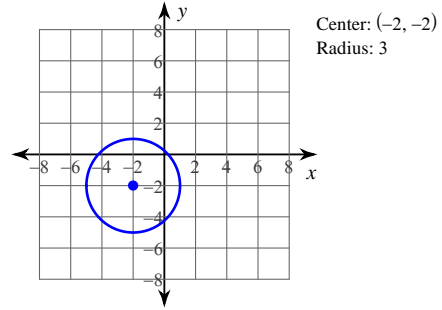


D)

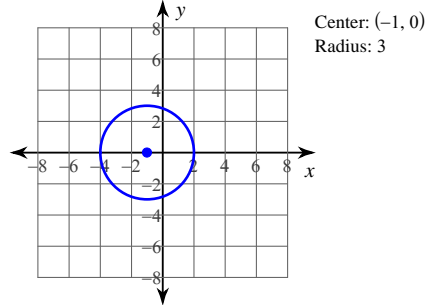


16) $-1 + 4y - 4x = -y^2 - x^2$

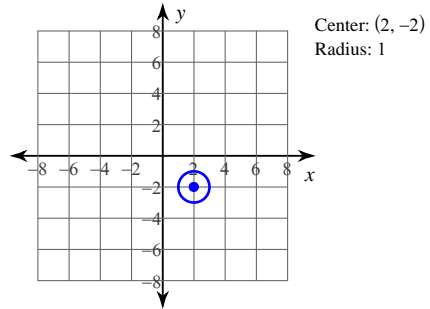
A)



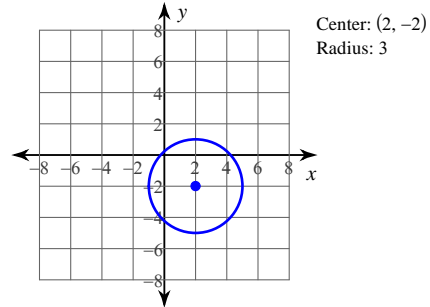
B)



C)

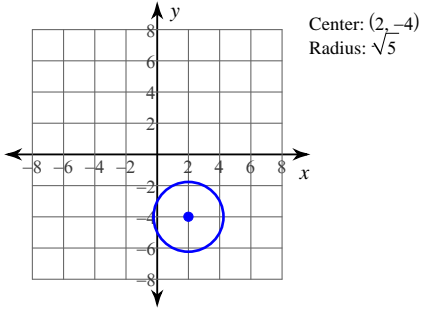


D)

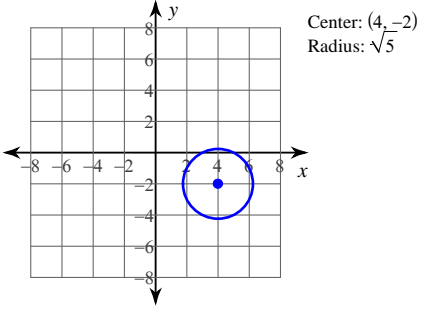


17) $y^2 = 8x - x^2 - 15 - 4y$

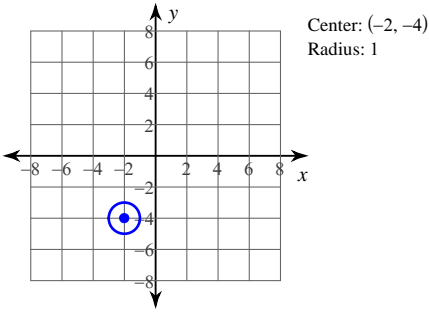
A)



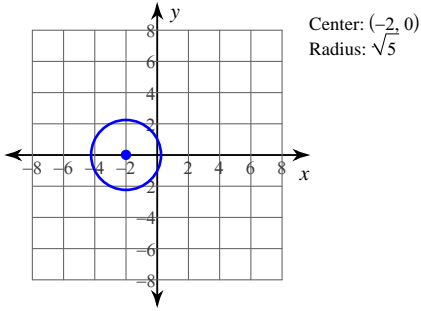
B)



C)

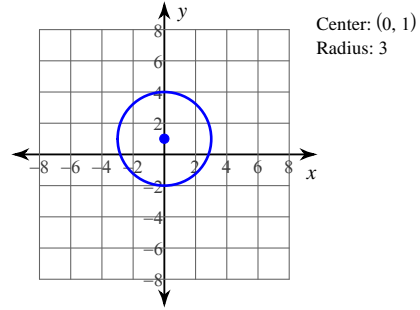


D)

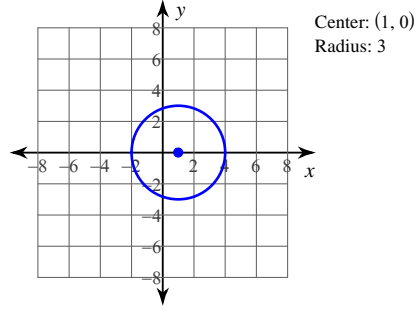


18) $y^2 - 8 = -x^2 - 2x$

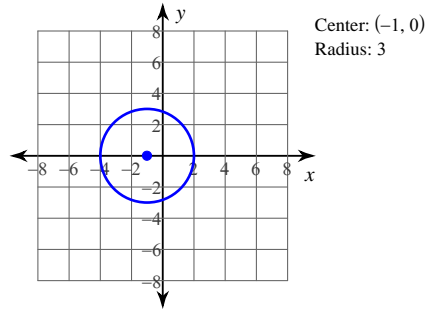
A)



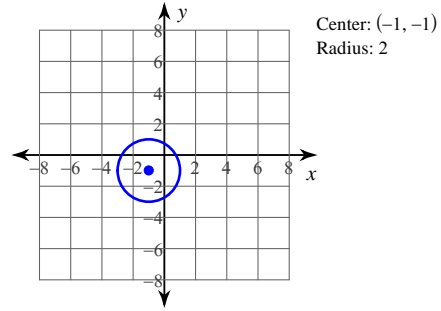
B)



C)

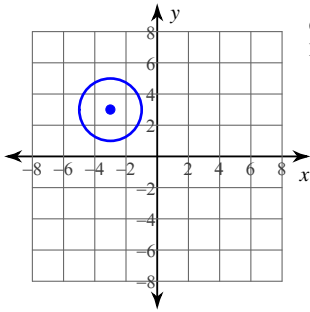


D)



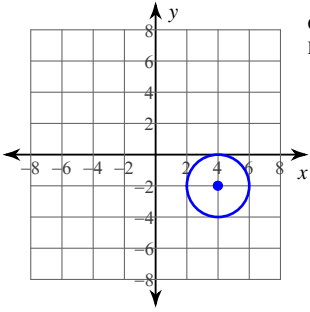
19) $-6x = -x^2 - y^2 + 6y - 14$

A)



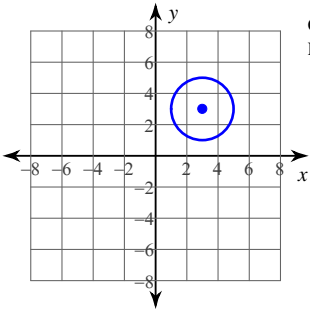
Center: $(-3, 3)$
Radius: 2

B)



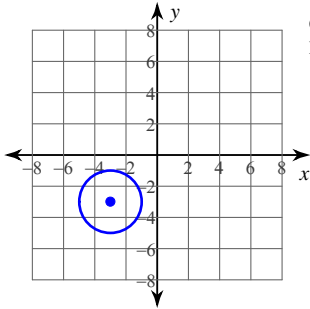
Center: $(4, -2)$
Radius: 2

C)



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

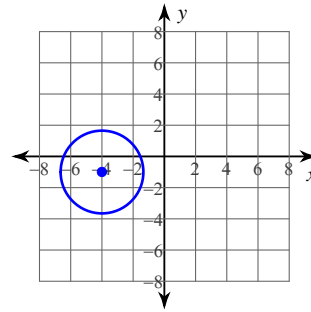
D)



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

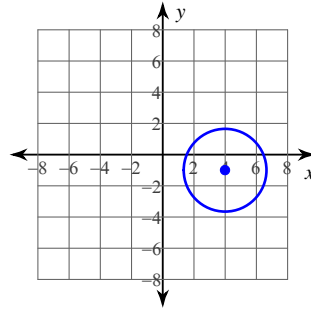
20) $8x + 10 - 2y = -x^2 - y^2$

A)



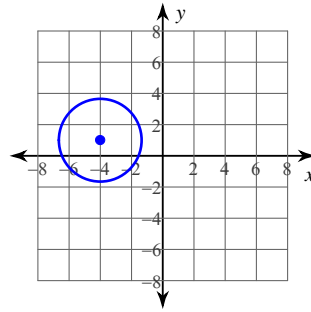
Center: $(-4, -1)$
Radius: $\sqrt{7}$

B)



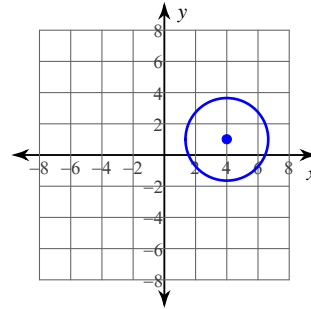
Center: $(4, -1)$
Radius: $\sqrt{7}$

C)



Center: $(-4, 1)$
Radius: $\sqrt{7}$

D)

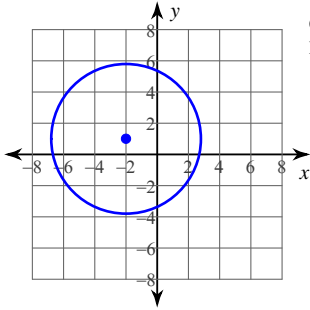


Center: $(4, 1)$
Radius: $\sqrt{7}$



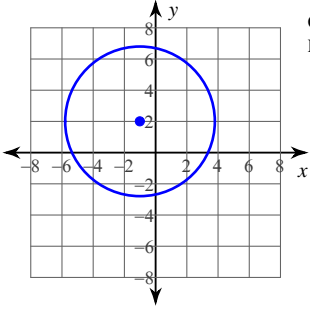
$$21) -18 = 2y - x^2 - 4x - y^2$$

A)



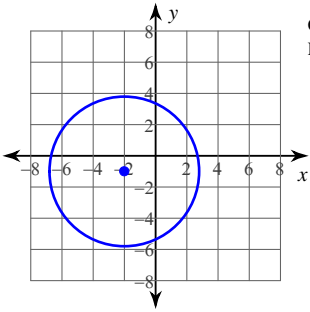
Center: $(-2, 1)$
Radius: $\sqrt{23}$

B)



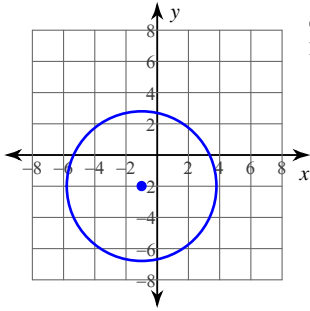
Center: $(-1, 2)$
Radius: $\sqrt{23}$

C)



Center: $(-2, -1)$
Radius: $\sqrt{23}$

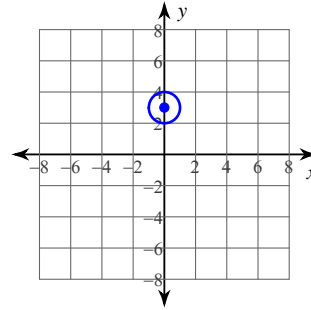
D)



Center: $(-1, -2)$
Radius: $\sqrt{23}$

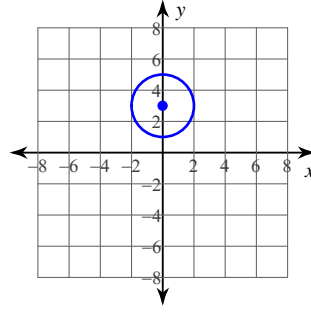
$$22) -6y + 5 + x^2 + y^2 = 0$$

A)



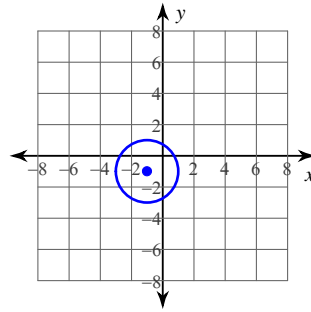
Center: $(0, 3)$
Radius: 1

B)



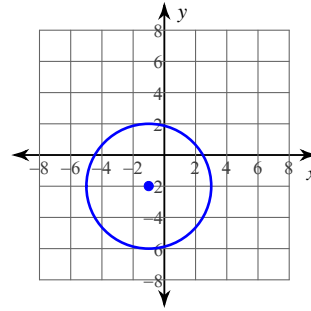
Center: $(0, 3)$
Radius: 2

C)



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

D)

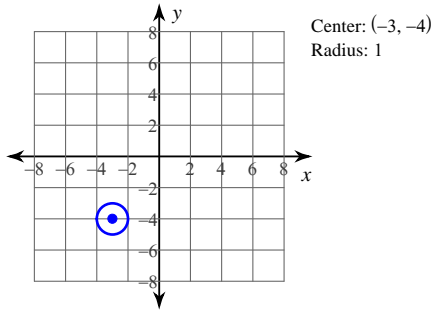


Center: $(-1, -2)$
Radius: 4

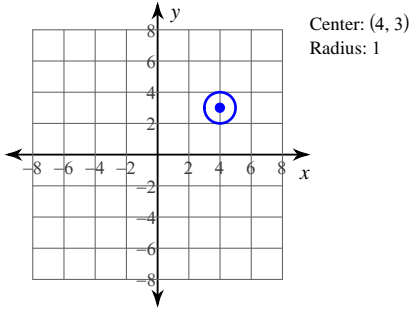


23) $y^2 + x^2 + 24 + 8y = -6x$

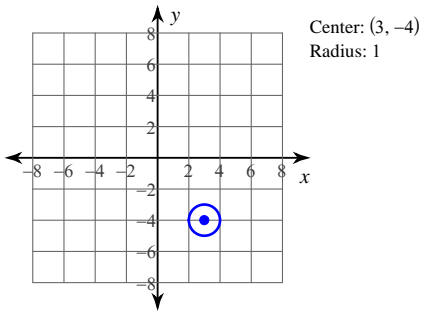
A)



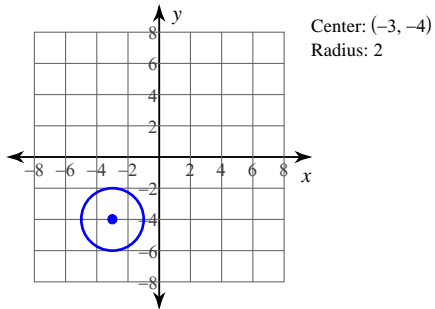
B)



C)

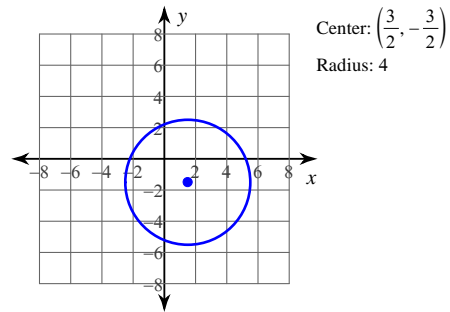


D)

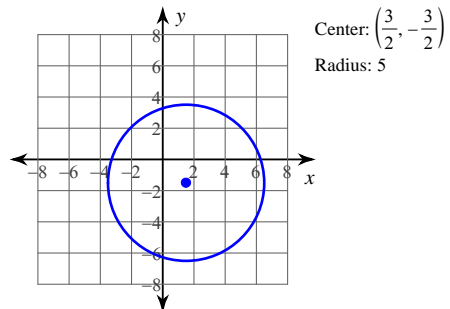


24) $2y^2 - 6x = 6y - 2x^2 + 41$

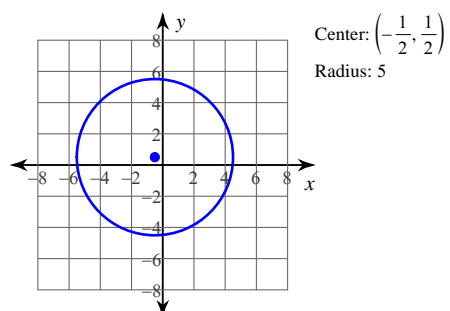
A)



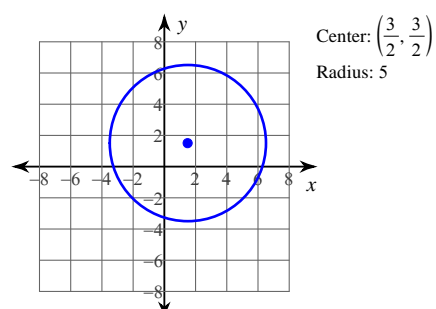
B)



C)



D)



Answers to Assignment (ID: 5)

1) A
5) B
9) D
13) B
17) B
21) A

2) B
6) C
10) B
14) B
18) C
22) B

3) B
7) C
11) B
15) C
19) C
23) A

4) B
8) D
12) D
16) D
20) C
24) D

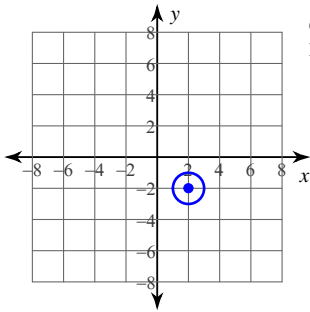


Assignment

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

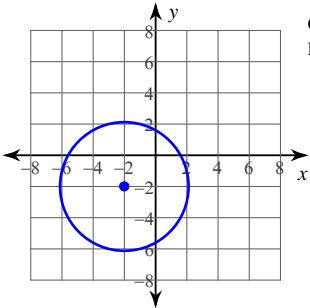
1) $y^2 - 9 + x^2 + 4y = 4x$

A)



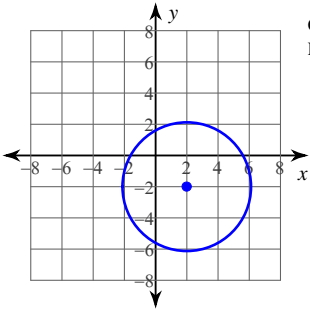
Center: $(2, -2)$
Radius: 1

B)



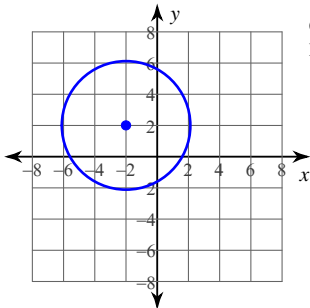
Center: $(-2, -2)$
Radius: $\sqrt{17}$

C)



Center: $(2, -2)$
Radius: $\sqrt{17}$

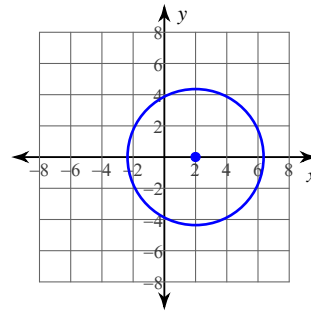
D)



Center: $(-2, 2)$
Radius: $\sqrt{17}$

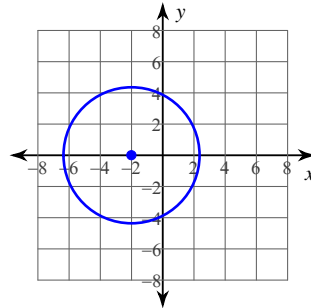
2) $-15 = -x^2 - y^2 - 4y$

A)



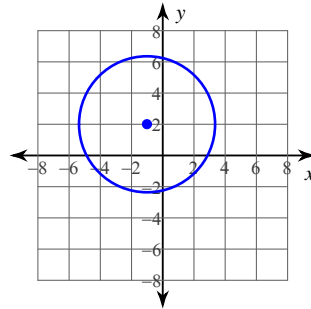
Center: $(2, 0)$
Radius: $\sqrt{19}$

B)



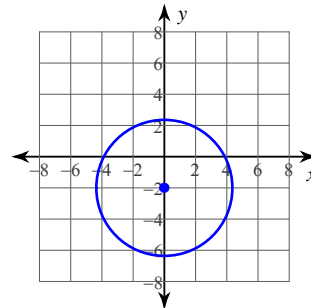
Center: $(-2, 0)$
Radius: $\sqrt{19}$

C)



Center: $(-1, 2)$
Radius: $\sqrt{19}$

D)

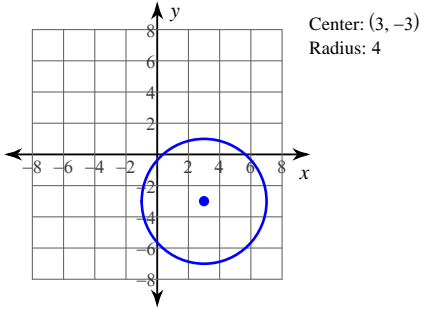


Center: $(0, -2)$
Radius: $\sqrt{19}$

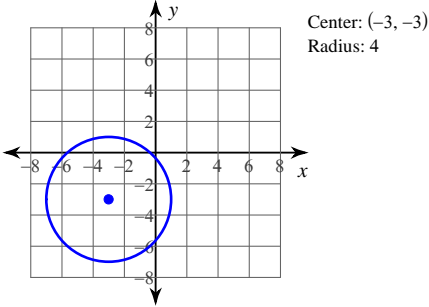


3) $6y + y^2 = 6x - 2 - x^2$

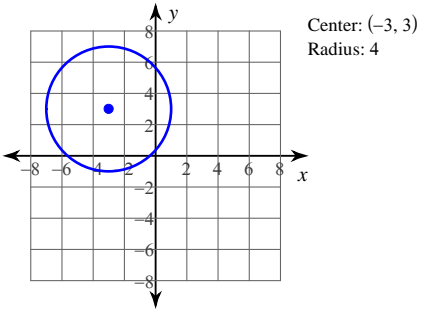
A)



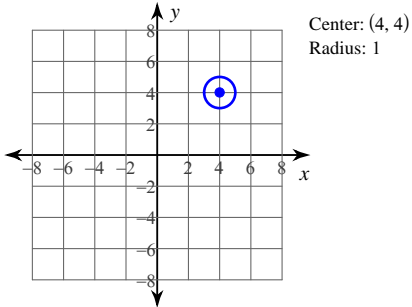
B)



C)

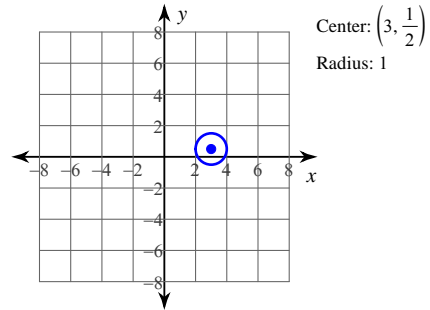


D)

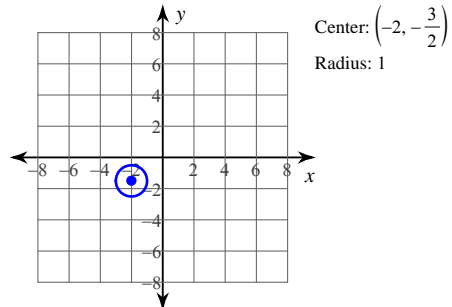


4) $4x^2 - 24x - 4y = -4y^2 - 33$

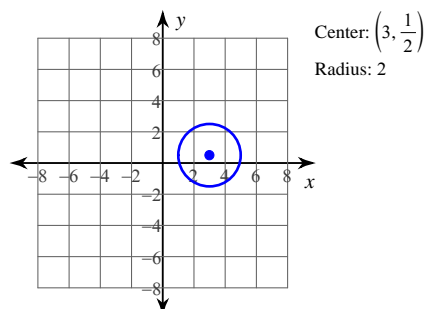
A)



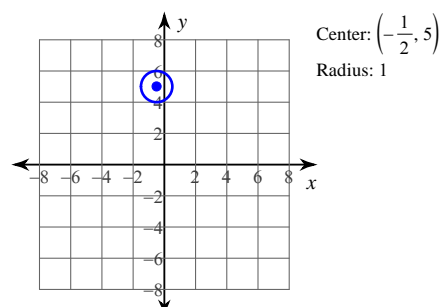
B)



C)

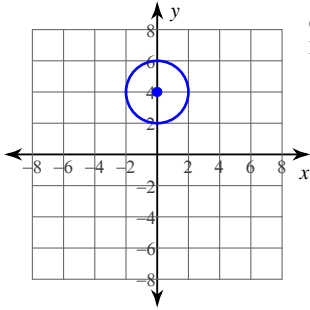


D)



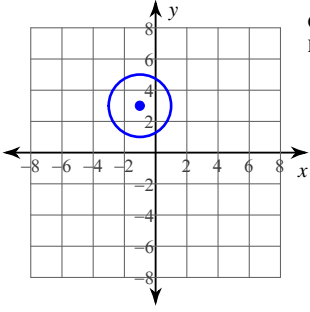
5) $y^2 + 12 = -x^2 - 8x$

A)



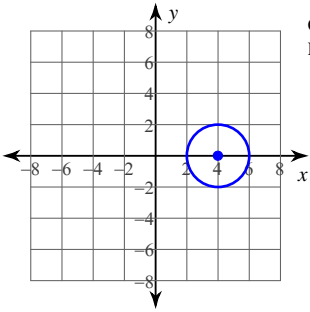
Center: (0, 4)
Radius: 2

B)



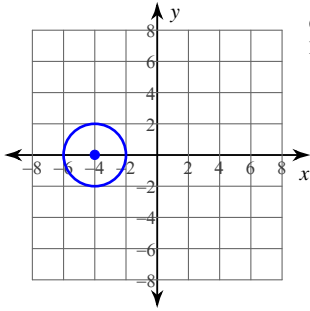
Center: (-1, 3)
Radius: 2

C)



Center: (4, 0)
Radius: 2

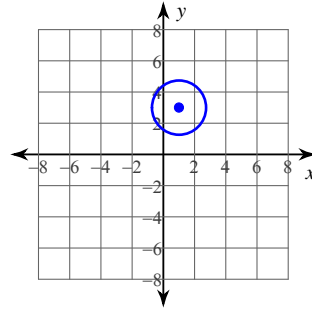
D)



Center: (-4, 0)
Radius: 2

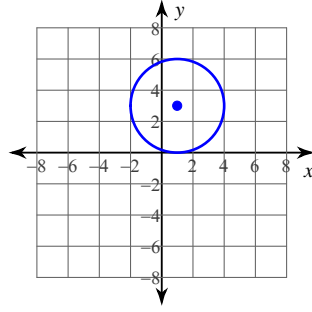
6) $7 - 2x - 6y = -x^2 - y^2$

A)



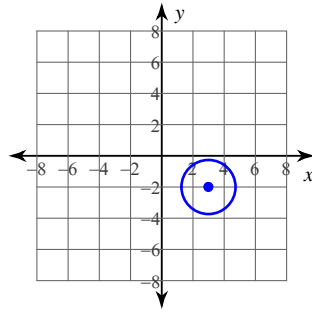
Center: (1, 3)
Radius: $\sqrt{3}$

B)



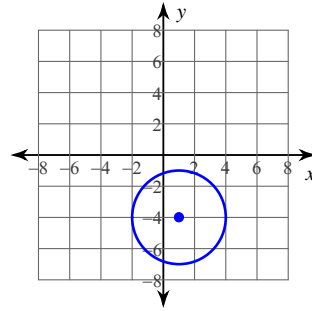
Center: (1, 3)
Radius: 3

C)



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

D)

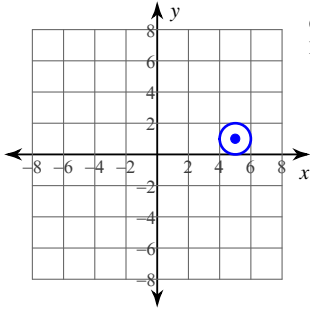


Center: (1, -4)
Radius: 3



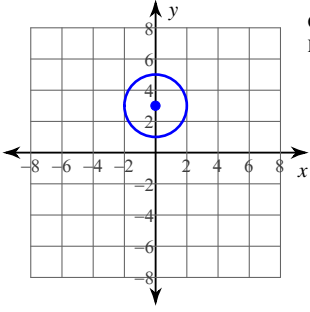
7) $8 = 6y - x^2 - y^2$

A)



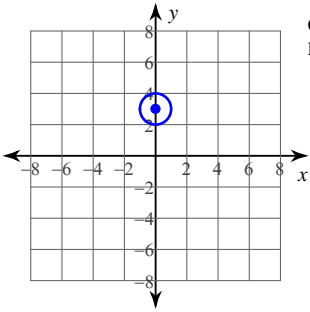
Center: (5, 1)
Radius: 1

B)



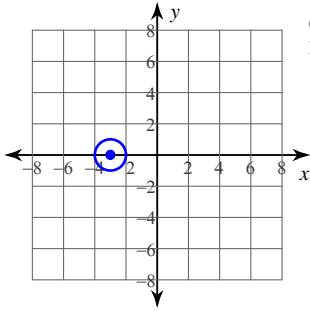
Center: (0, 3)
Radius: 2

C)



Center: (0, 3)
Radius: 1

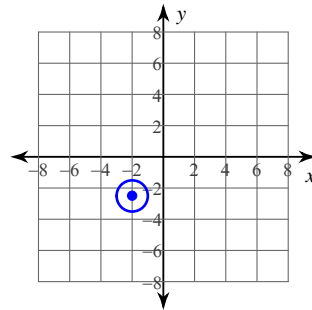
D)



Center: (-3, 0)
Radius: 1

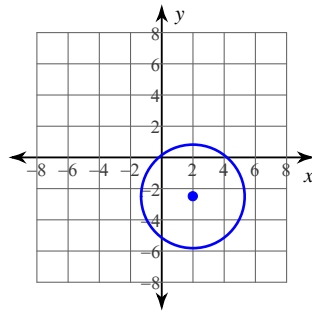
8) $4x^2 - 20x + 4y^2 = 3 + 16y$

A)



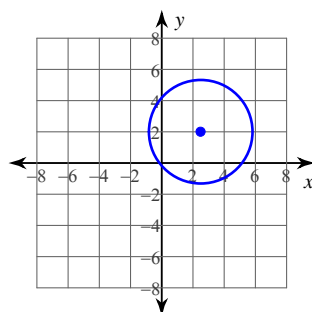
Center: $(-2, -\frac{5}{2})$
Radius: 1

B)



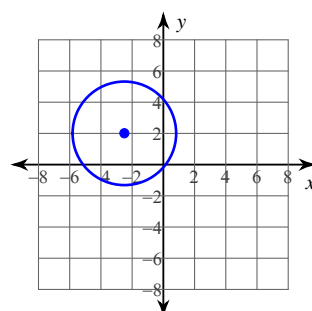
Center: $(2, -\frac{5}{2})$
Radius: $\sqrt{11}$

C)



Center: $(\frac{5}{2}, 2)$
Radius: $\sqrt{11}$

D)

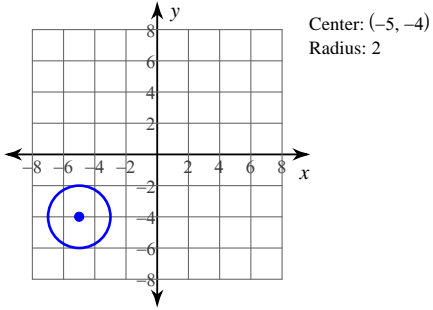


Center: $(-\frac{5}{2}, 2)$
Radius: $\sqrt{11}$

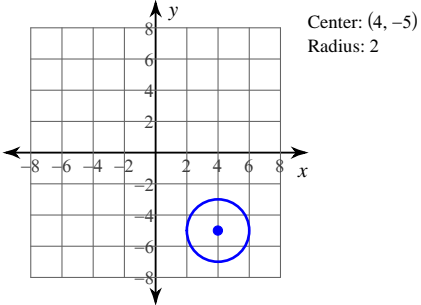


9) $6x + 21 = -x^2 - y^2 + 8y$

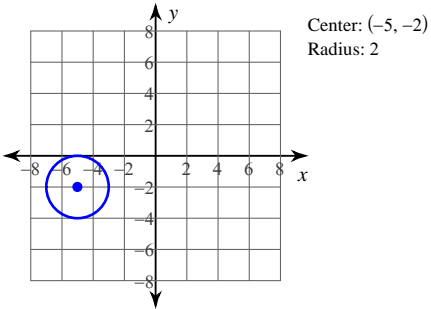
A)



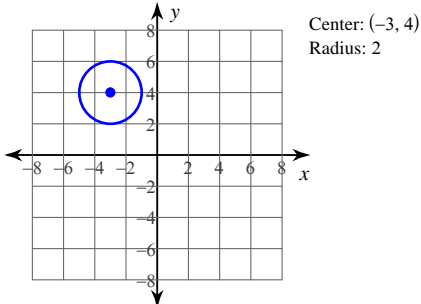
B)



C)

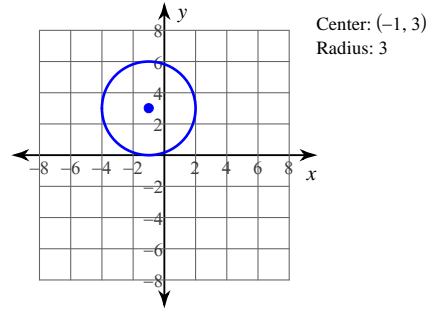


D)

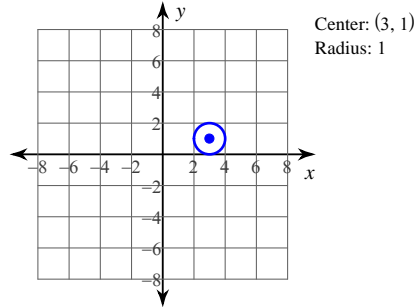


10) $(x - 1)^2 + (y + 3)^2 = 9$

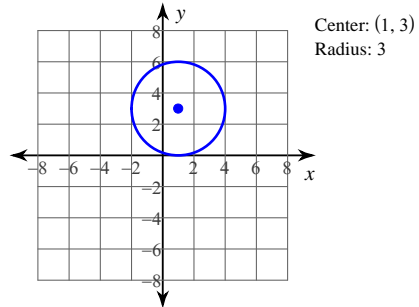
A)



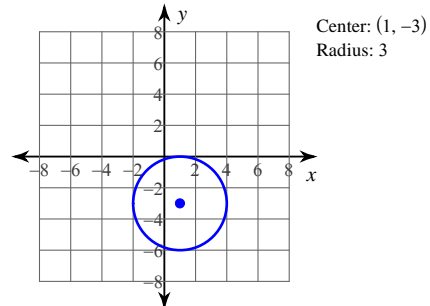
B)



C)

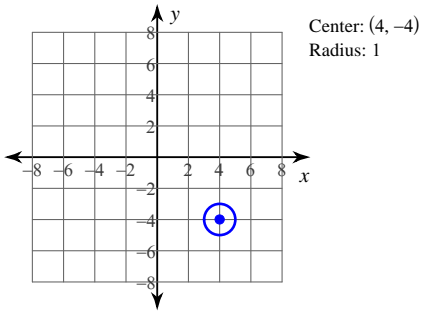


D)

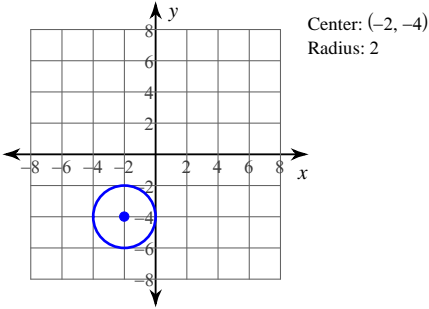


$$11) (x - 4)^2 + (y + 4)^2 = 4$$

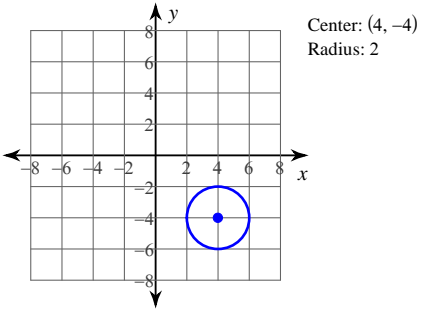
A)



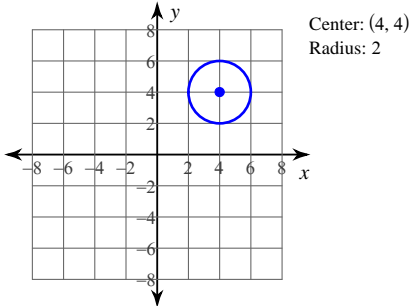
B)



C)

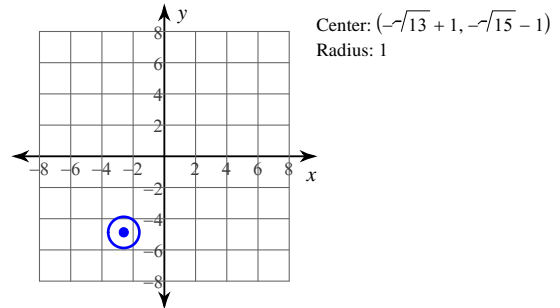


D)

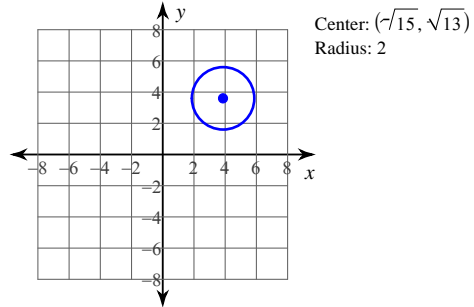


$$12) (x - \sqrt{15})^2 + (y - \sqrt{13})^2 = 1$$

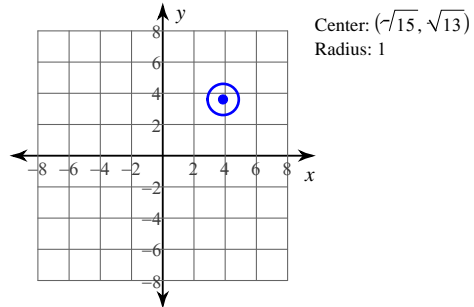
A)



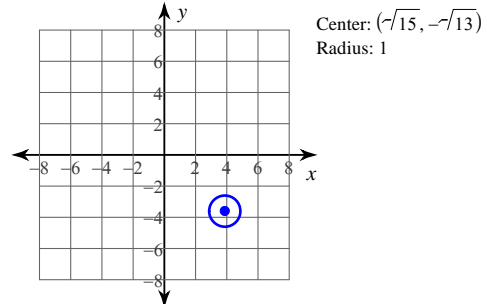
B)



C)

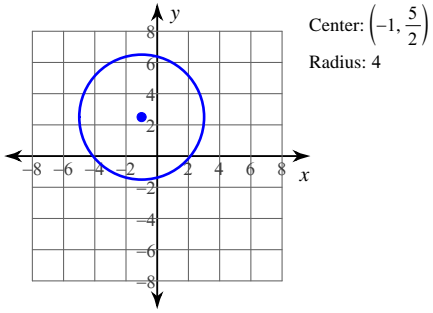


D)

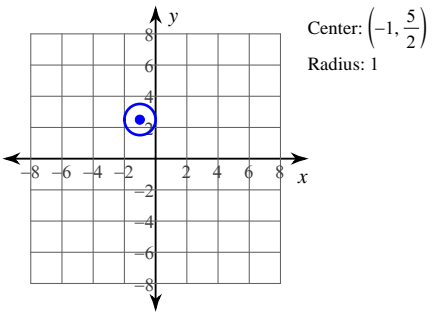


$$13) (x + 1)^2 + \left(y - \frac{5}{2}\right)^2 = 16$$

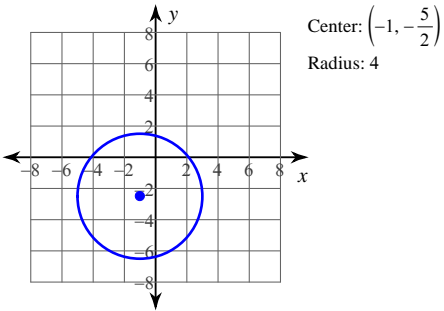
A)



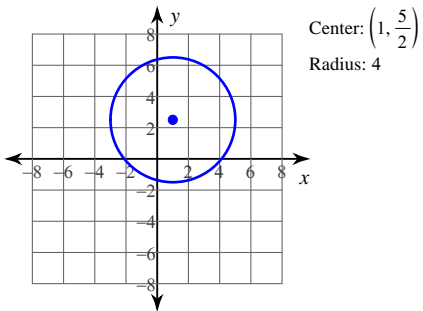
B)



C)

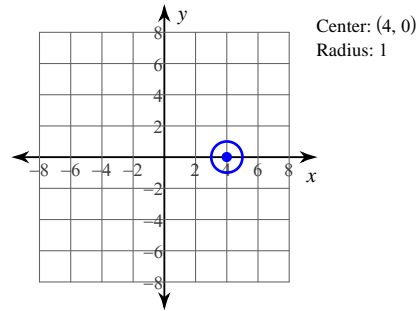


D)

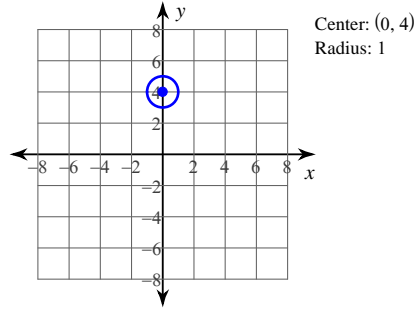


$$14) (x + 4)^2 + y^2 = 1$$

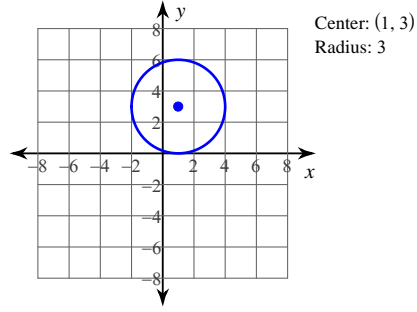
A)



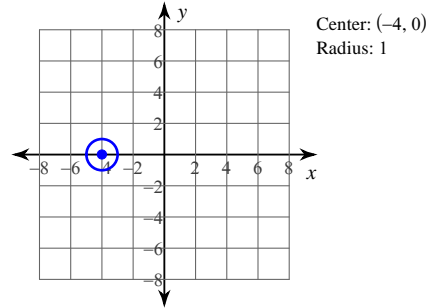
B)



C)

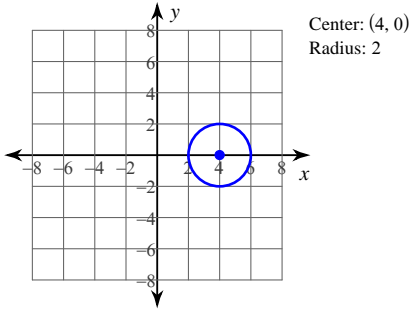


D)

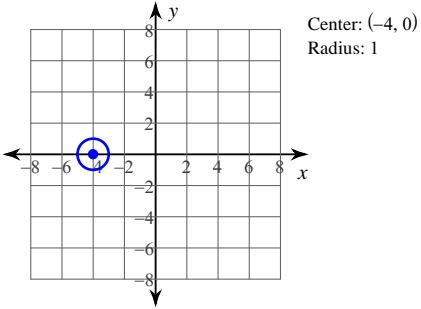


15) $(x - 4)^2 + y^2 = 1$

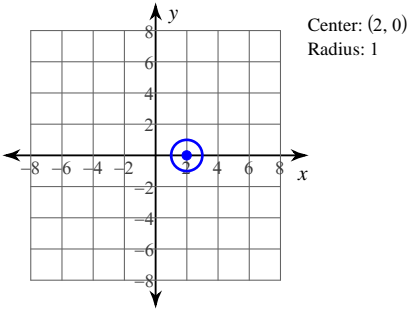
A)



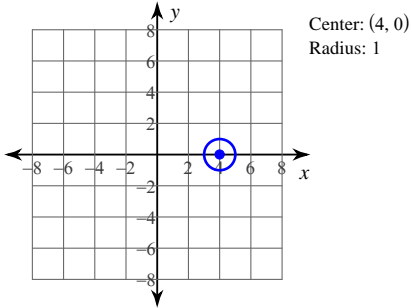
B)



C)

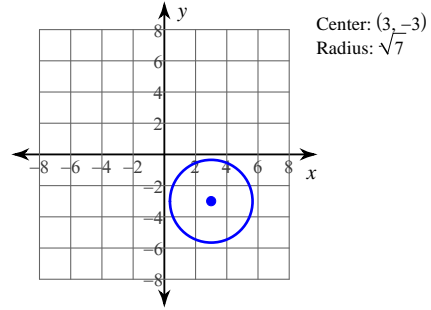


D)

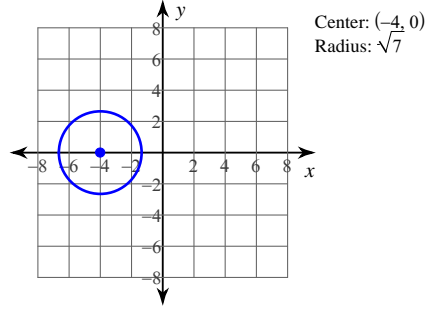


16) $x^2 + y^2 = -2x + 4y + 2$

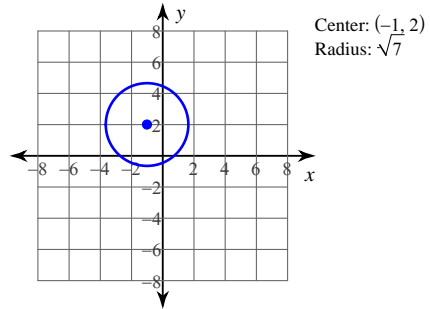
A)



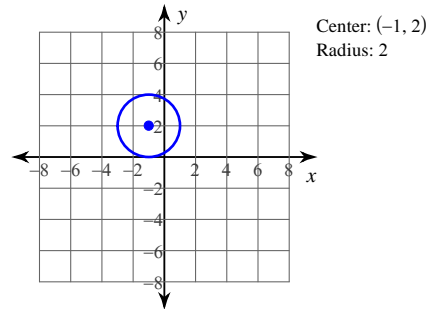
B)



C)

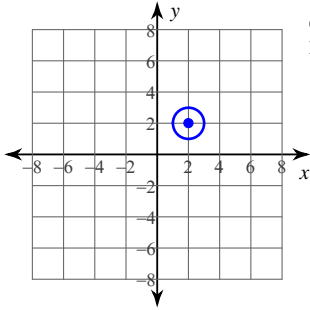


D)



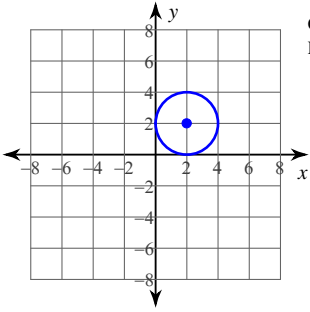
$$17) -4y - 4x + y^2 = -7 - x^2$$

A)



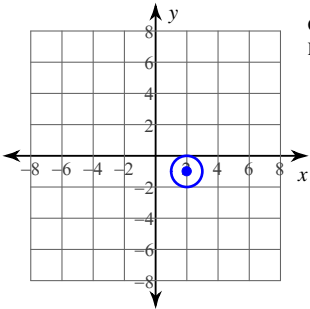
Center: (2, 2)
Radius: 1

B)



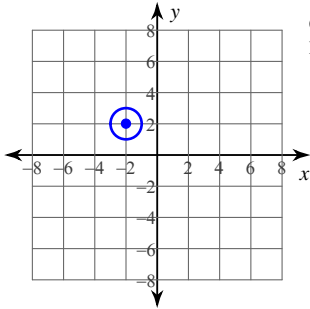
Center: (2, 2)
Radius: 2

C)



Center: (2, -1)
Radius: 1

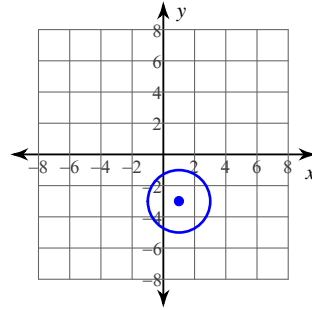
D)



Center: (-2, 2)
Radius: 1

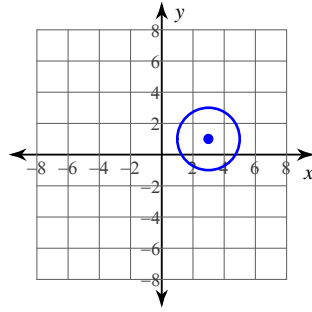
$$18) y^2 - 2x + x^2 = -6y - 9$$

A)



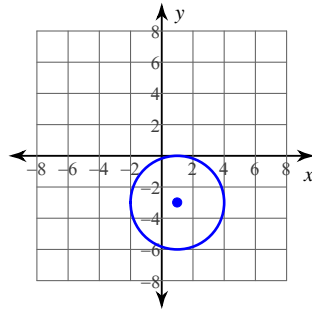
Center: (1, -3)
Radius: 2

B)



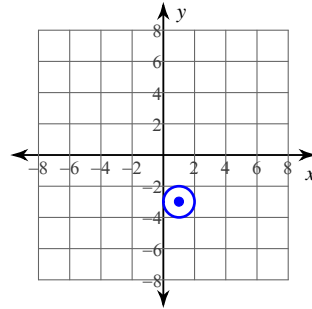
Center: (3, 1)
Radius: 2

C)



Center: (1, -3)
Radius: 3

D)

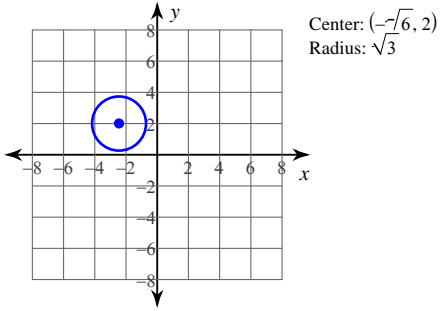


Center: (1, -3)
Radius: 1

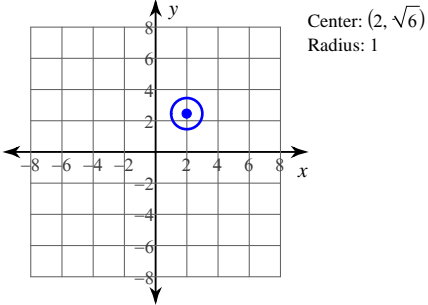


19) $x^2 - 2x - \sqrt{6} + 7 = -4y - y^2$

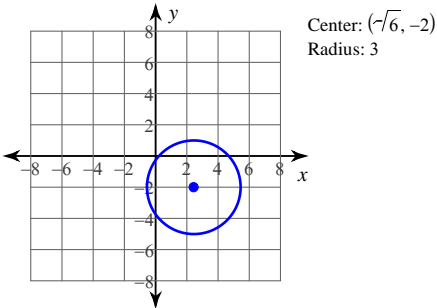
A)



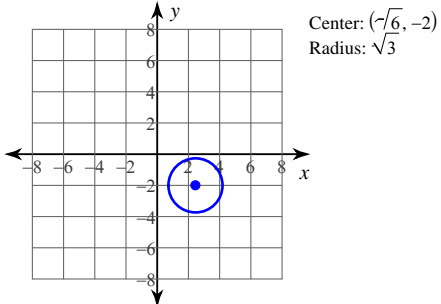
B)



C)

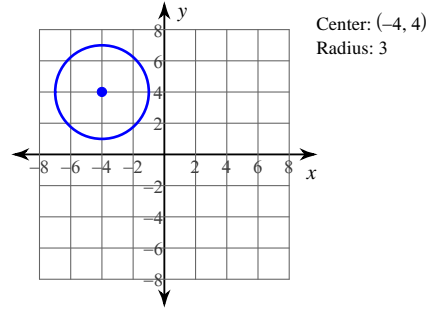


D)

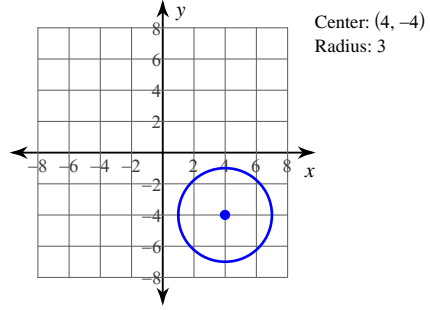


20) $8x = -23 + 8y - y^2 - x^2$

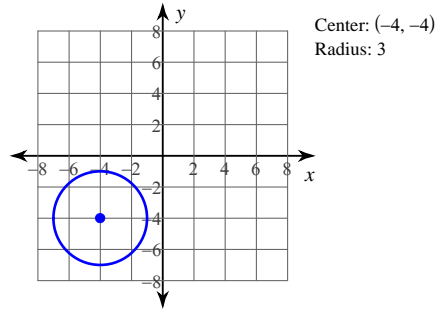
A)



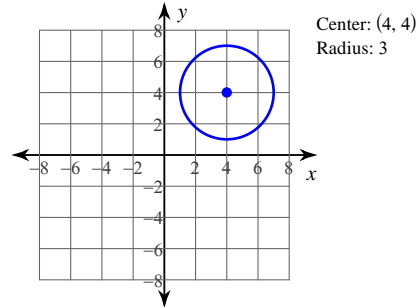
B)



C)

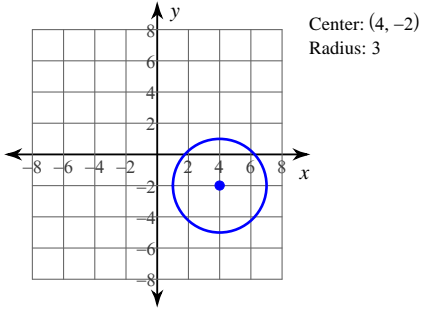


D)

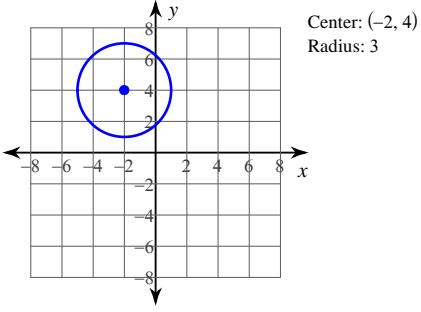


21) $x^2 + y^2 + 11 = -8y + 4x$

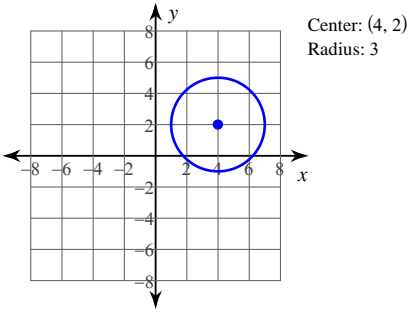
A)



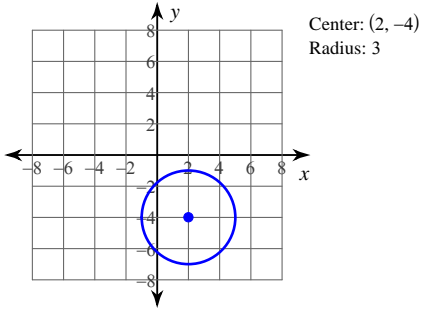
B)



C)

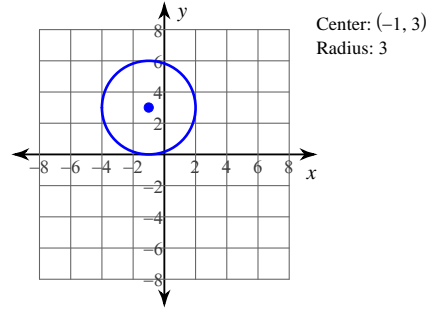


D)

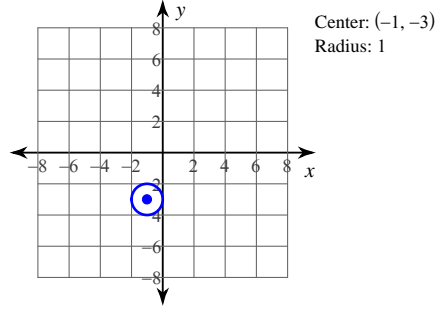


22) $6y + x^2 = -1 - y^2 - 2x$

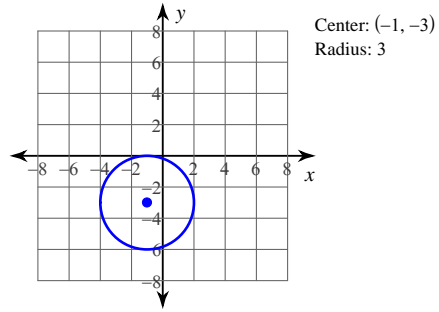
A)



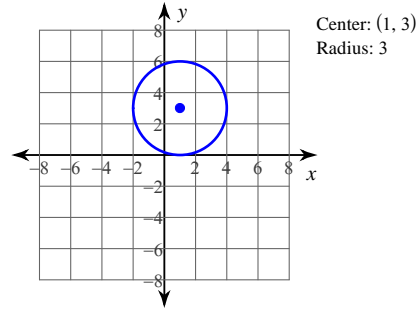
B)



C)

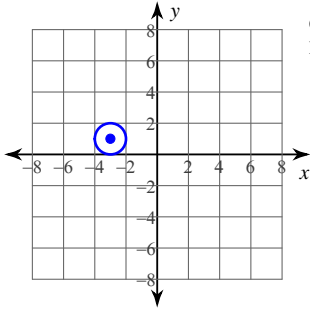


D)



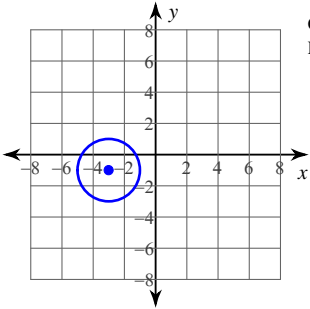
$$23) y^2 + x^2 + 6x + 2y = -6$$

A)



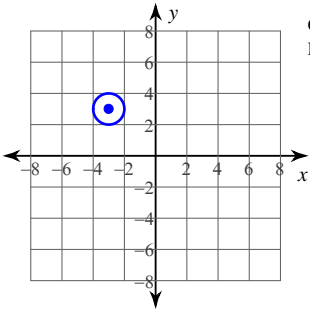
Center: $(-3, 1)$
Radius: 1

B)



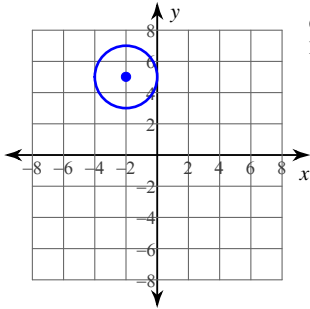
Center: $(-3, -1)$
Radius: 2

C)



Center: $(-3, 3)$
Radius: 1

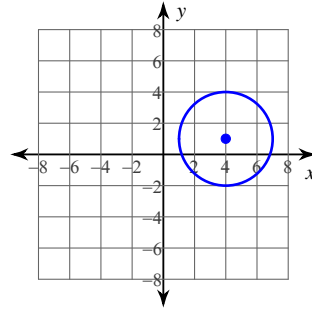
D)



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

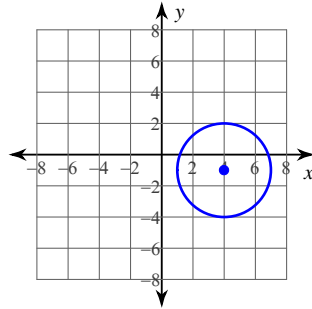
$$24) 0 = -x^2 - 8 + 8x - 2y - y^2$$

A)



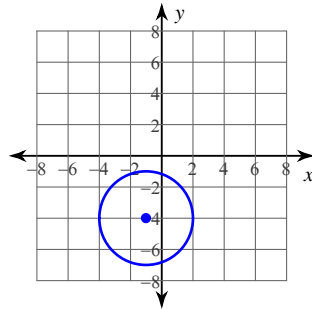
Center: $(4, 1)$
Radius: 3

B)



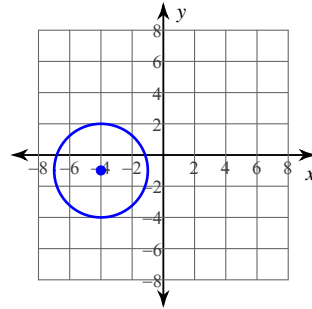
Center: $(4, -1)$
Radius: 3

C)



Center: $(-1, -4)$
Radius: 3

D)



Center: $(-4, -1)$
Radius: 3



Answers to Assignment (ID: 6)

- 1) C
- 5) D
- 9) D
- 13) A
- 17) A
- 21) D

- 2) D
- 6) A
- 10) D
- 14) D
- 18) D
- 22) C

- 3) A
- 7) C
- 11) C
- 15) D
- 19) D
- 23) B

- 4) A
- 8) C
- 12) C
- 16) C
- 20) A
- 24) B

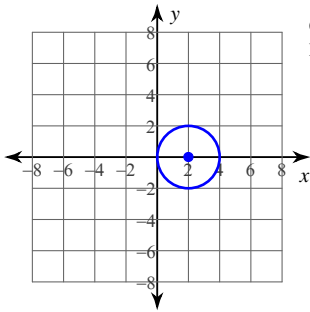


Assignment

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

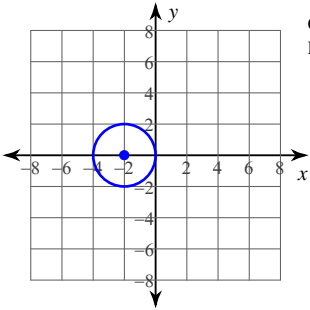
1) $-4x + x^2 + y^2 = 0$

A)



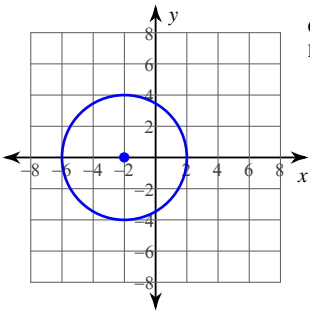
Center: (2, 0)
Radius: 2

B)



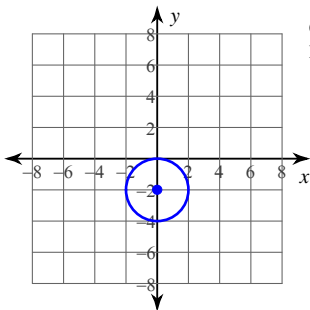
Center: (-2, 0)
Radius: 2

C)



Center: (-2, 0)
Radius: 4

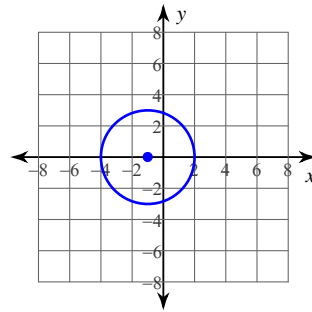
D)



Center: (0, -2)
Radius: 2

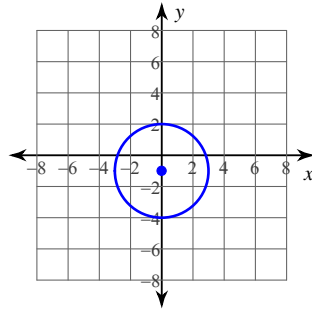
2) $y^2 = 2y + 8 - x^2$

A)



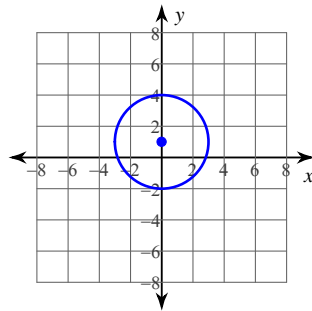
Center: (-1, 0)
Radius: 3

B)



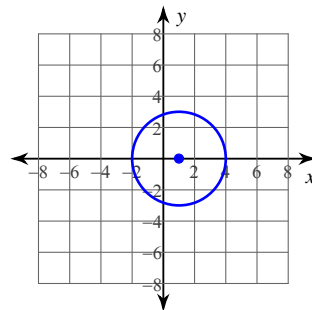
Center: (0, -1)
Radius: 3

C)



Center: (0, 1)
Radius: 3

D)

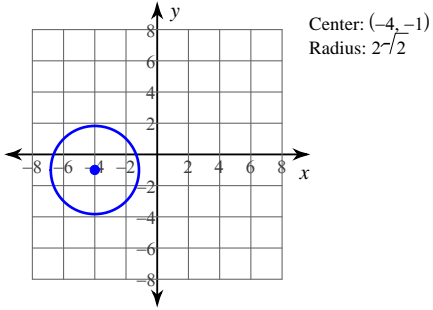


Center: (1, 0)
Radius: 3

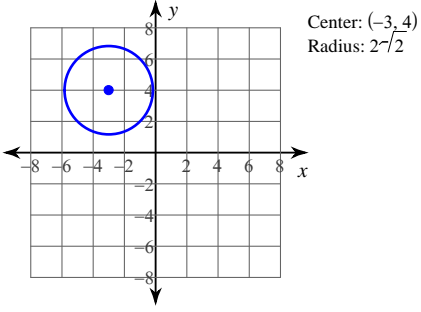


3) $-6y + 17 + 8x + y^2 = -x^2$

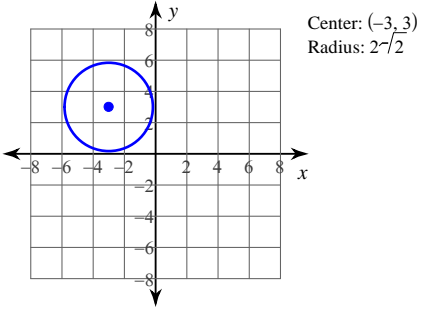
A)



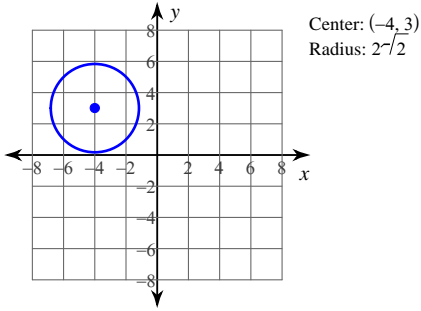
B)



C)

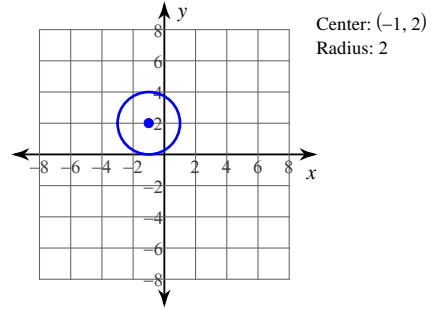


D)

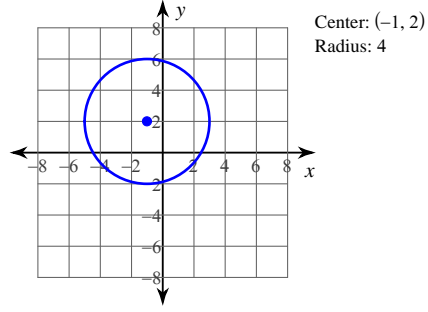


4) $2x + y^2 = -1 + 4y - x^2$

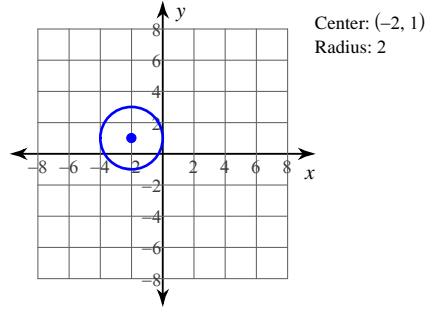
A)



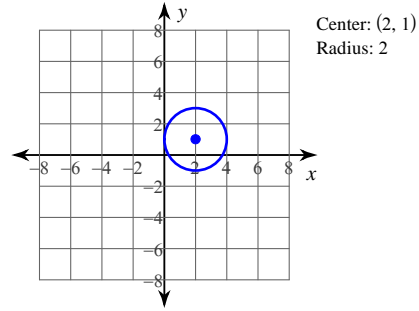
B)



C)

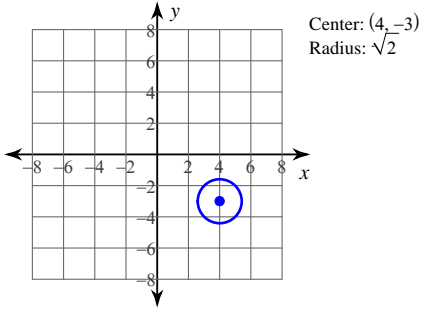


D)

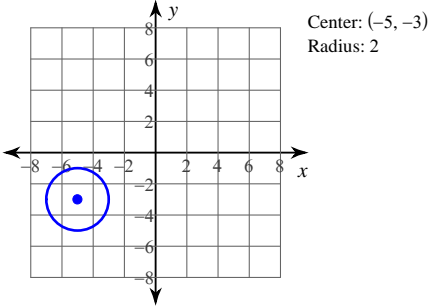


5) $-8y - 6x = -x^2 - y^2 - 23$

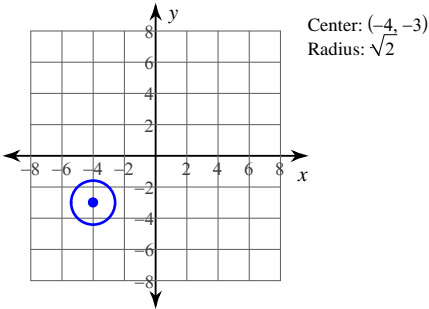
A)



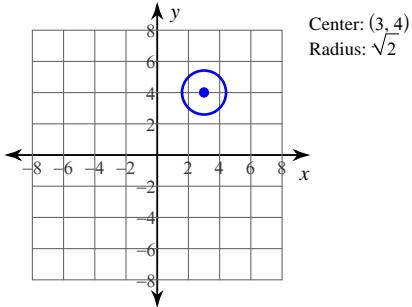
B)



C)

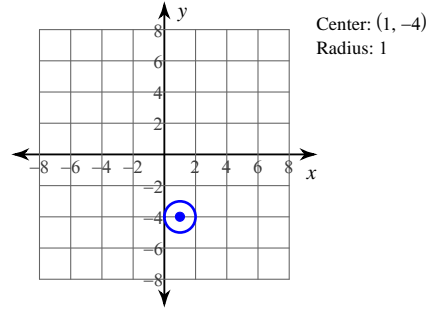


D)

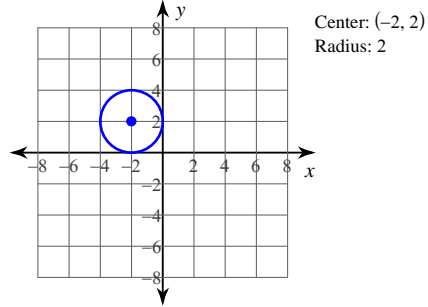


6) $16 - 2x + y^2 + 8y = -x^2$

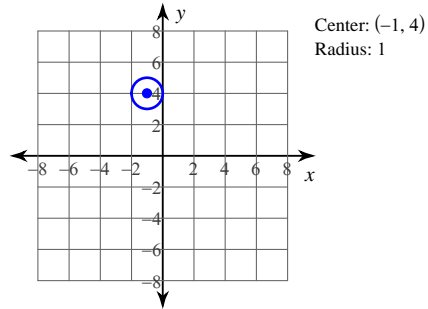
A)



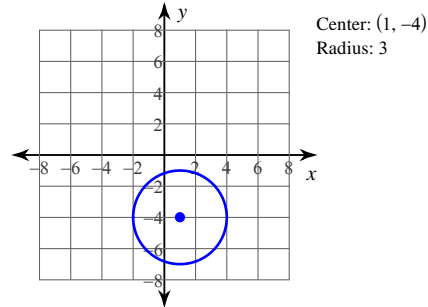
B)



C)

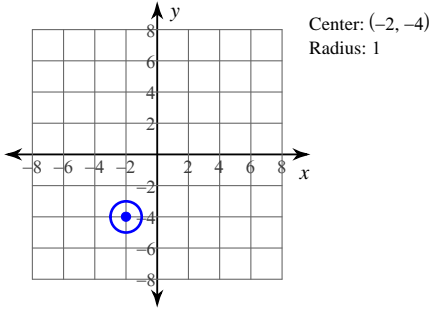


D)

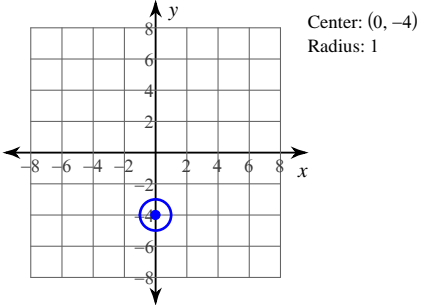


7) $15 + y^2 + x^2 = -8y$

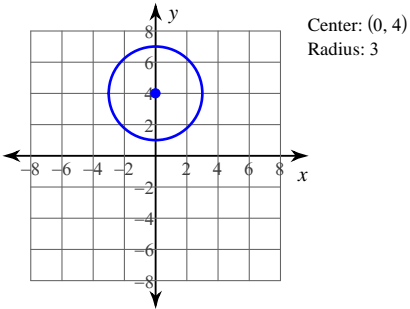
A)



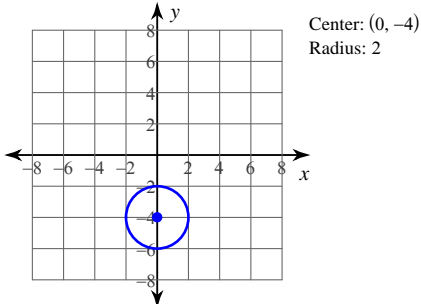
B)



C)

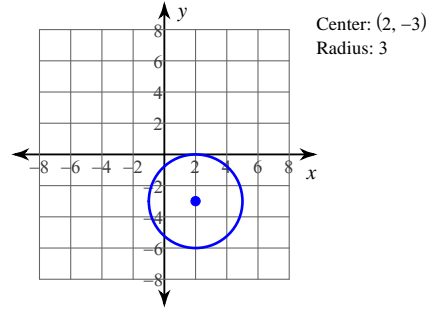


D)

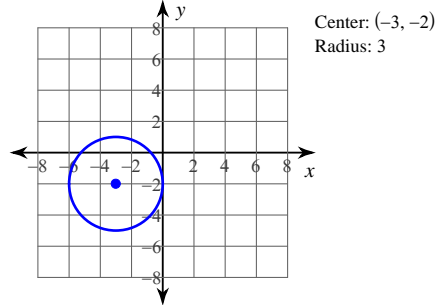


8) $x^2 = -y^2 - 6x - 4y - 4$

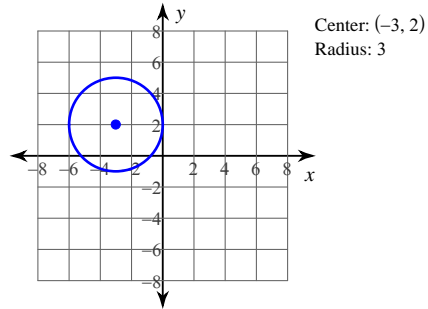
A)



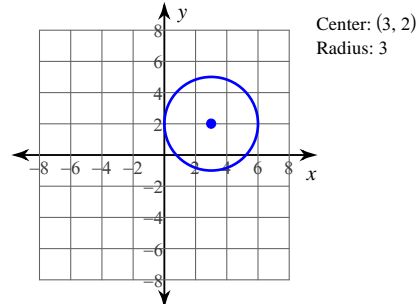
B)



C)

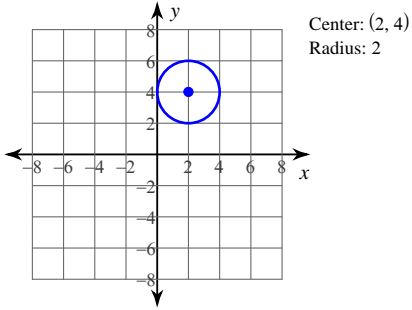


D)

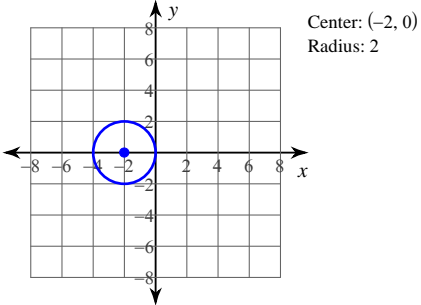


9) $16 - 8x + x^2 = -y^2 - 4y$

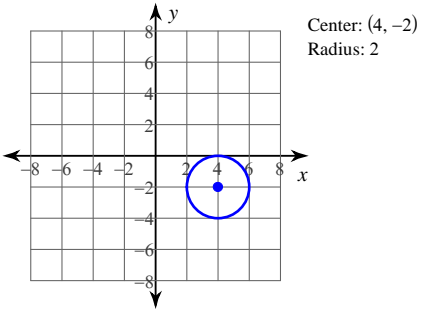
A)



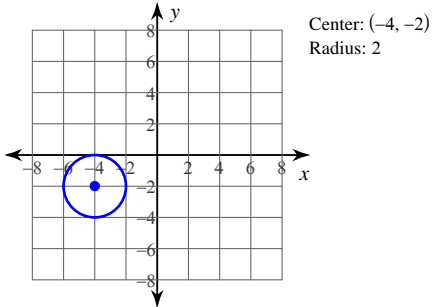
B)



C)

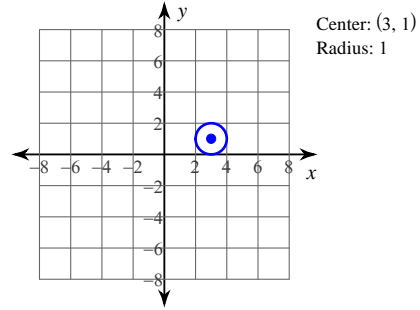


D)

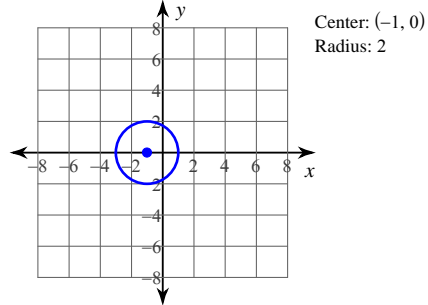


10) $2y - 6x = -y^2 - x^2 - 2$

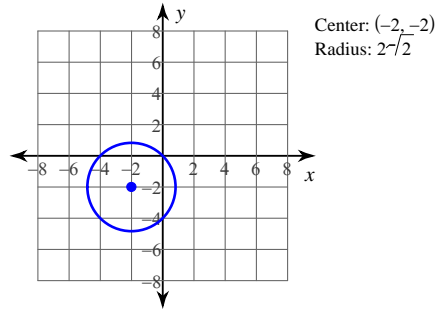
A)



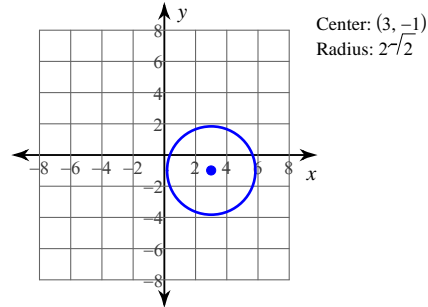
B)



C)

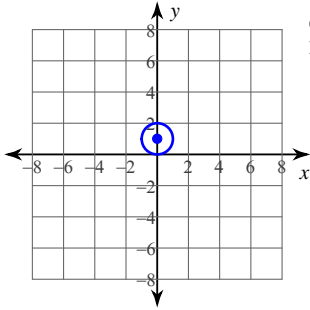


D)



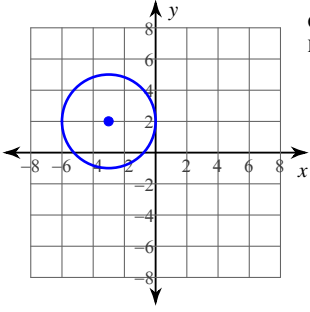
$$11) -2y = -x^2 - y^2$$

A)



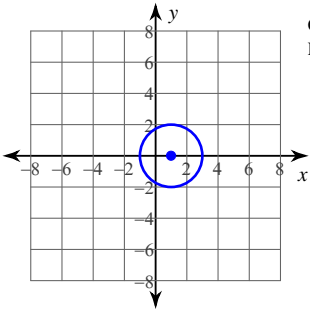
Center: (0, 1)
Radius: 1

B)



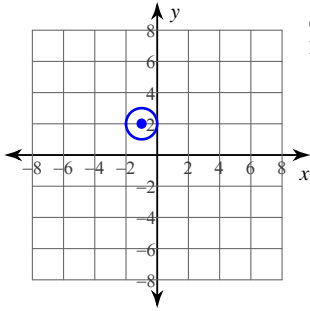
Center: (-3, 2)
Radius: 3

C)



Center: (1, 0)
Radius: 2

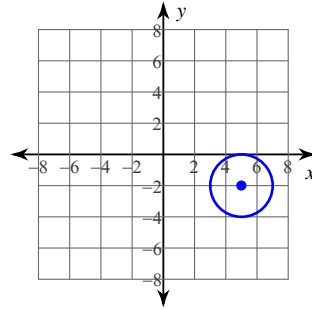
D)



Center: (-1, 2)
Radius: 1

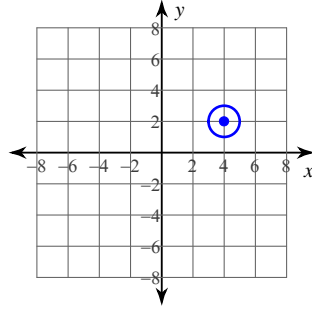
$$12) 6x - 4y = -12 - y^2 - x^2$$

A)



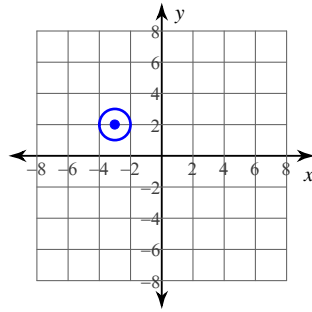
Center: (5, -2)
Radius: 2

B)



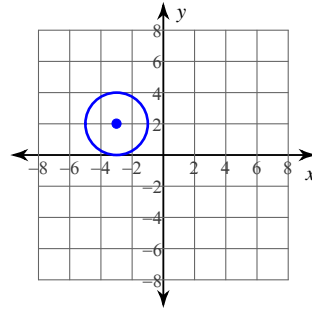
Center: (4, 2)
Radius: 1

C)



Center: (-3, 2)
Radius: 1

D)

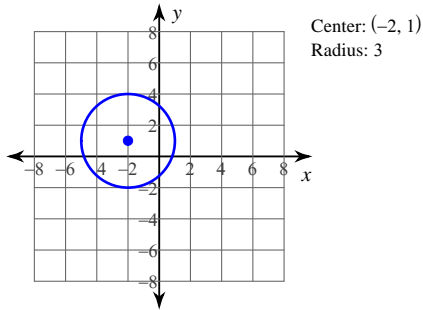


Center: (-3, 2)
Radius: 2

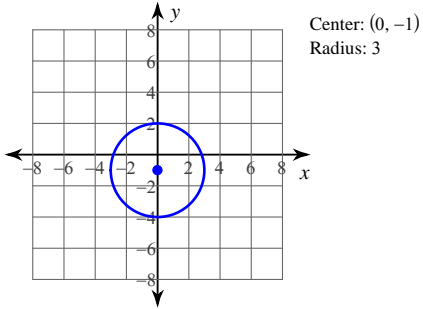


$$13) -2y + y^2 + x^2 = 4 - 4x$$

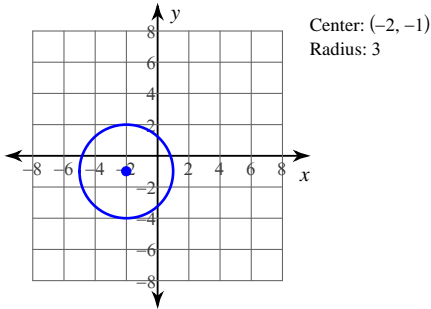
A)



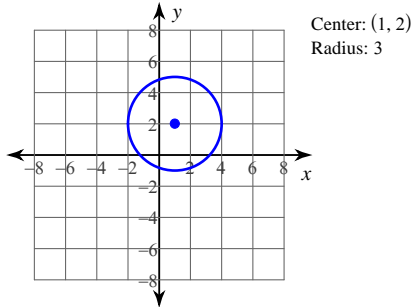
B)



C)

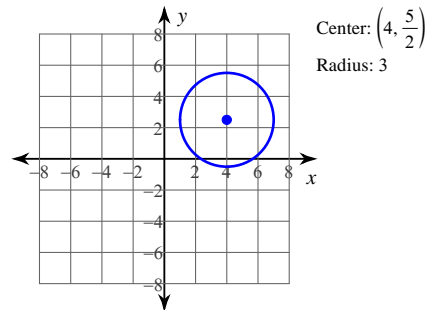


D)

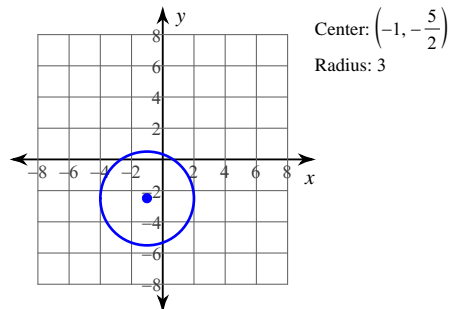


$$14) 4y^2 + 4x^2 + 49 - 28y = -24x$$

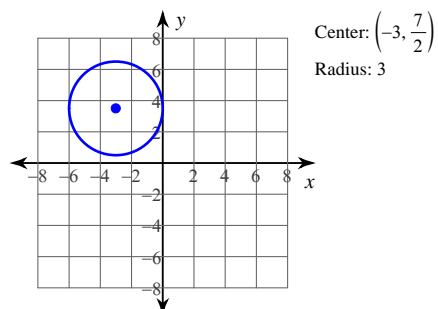
A)



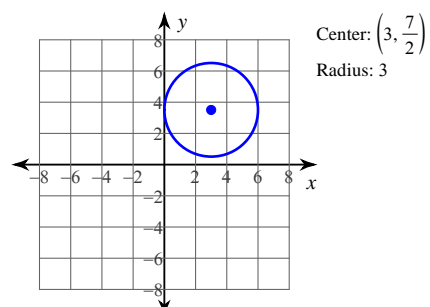
B)



C)

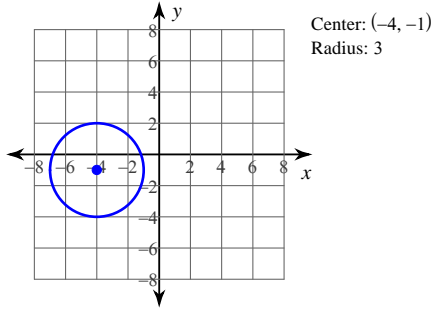


D)

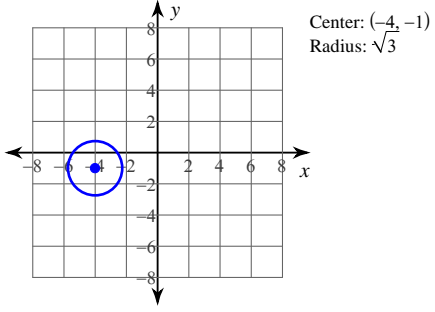


15) $14 - 8y + x^2 = 2x - y^2$

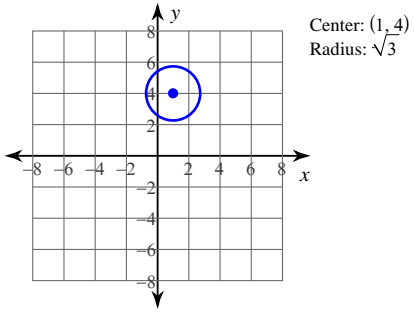
A)



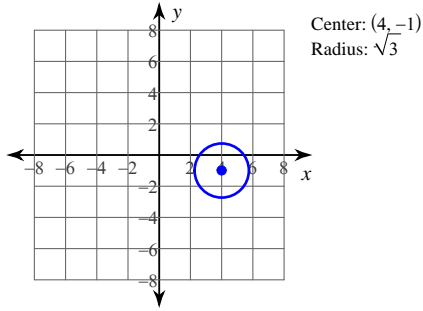
B)



C)

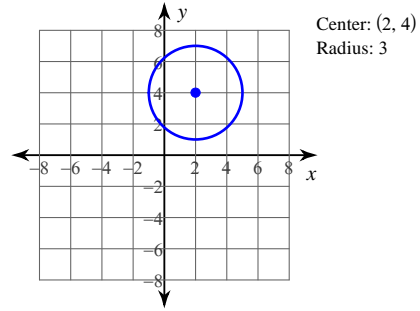


D)

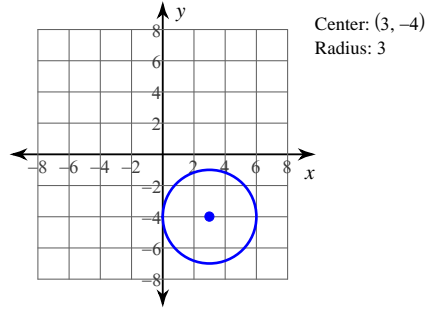


16) $(x + 2)^2 + (y + 4)^2 = 9$

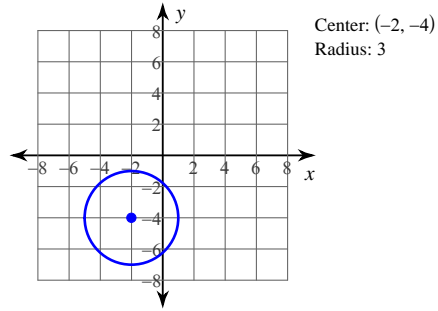
A)



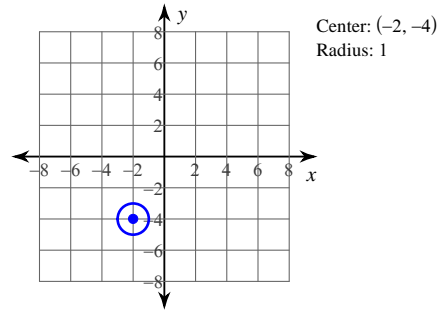
B)



C)

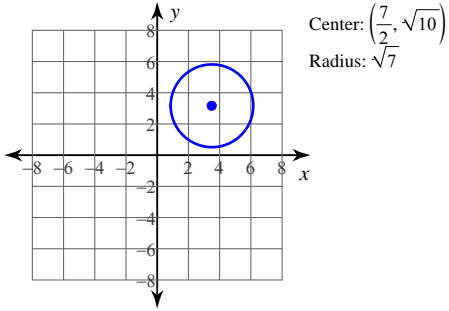


D)

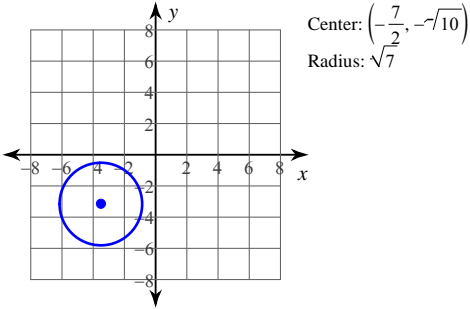


$$17) 4y^2 - 8x\sqrt{10} = -4x^2 - 28y - 61$$

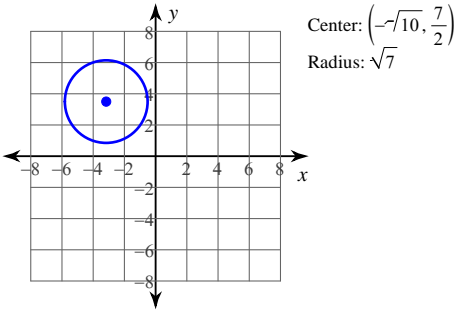
A)



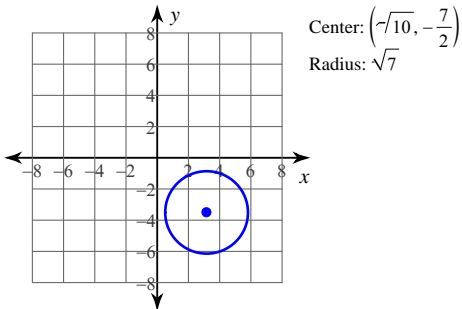
B)



C)

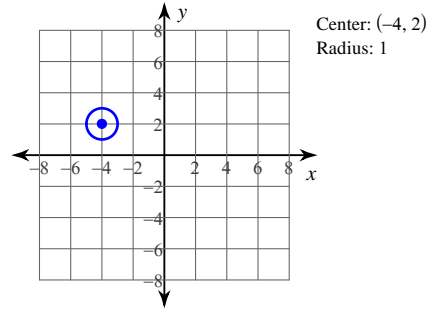


D)

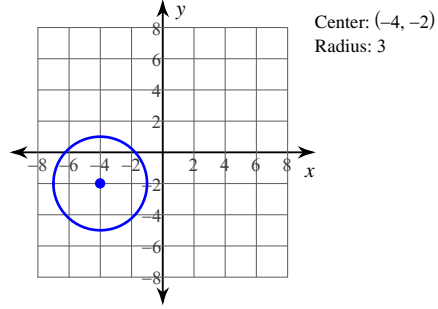


$$18) (x + 4)^2 + (y + 2)^2 = 9$$

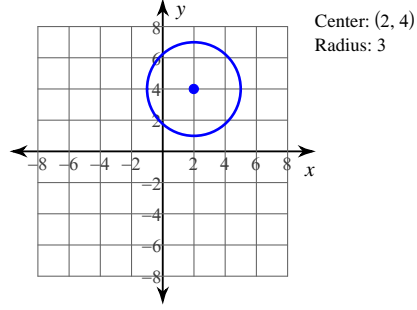
A)



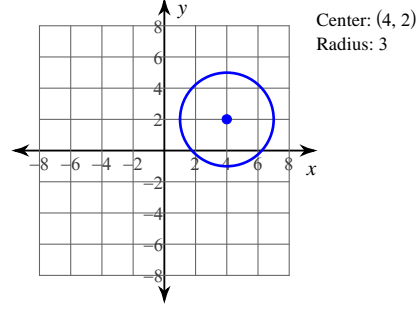
B)



C)

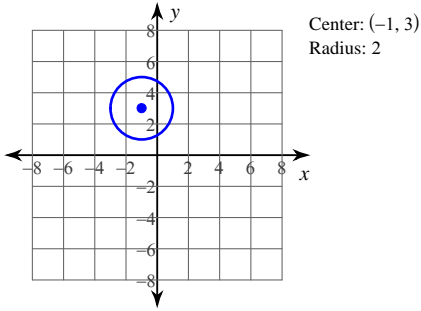


D)

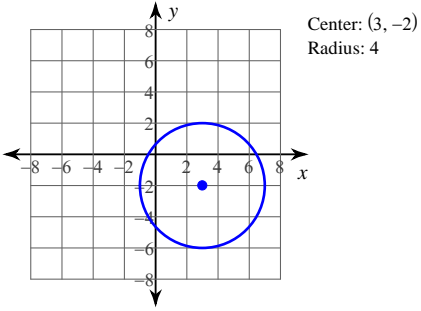


19) $(x - 3)^2 + (y + 2)^2 = 4$

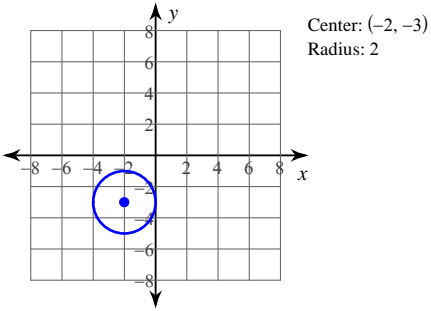
A)



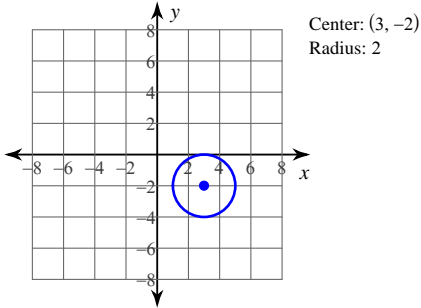
B)



C)

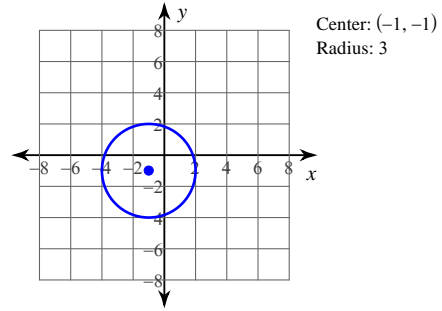


D)

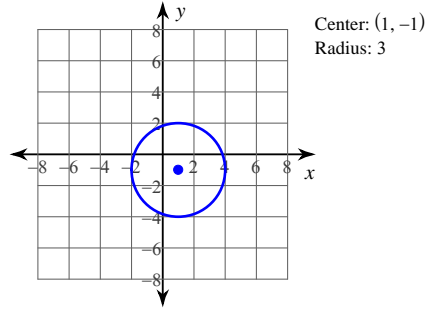


20) $(x - 1)^2 + (y + 1)^2 = 9$

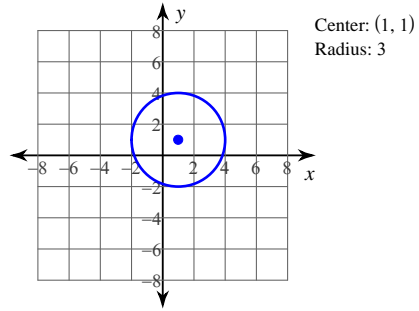
A)



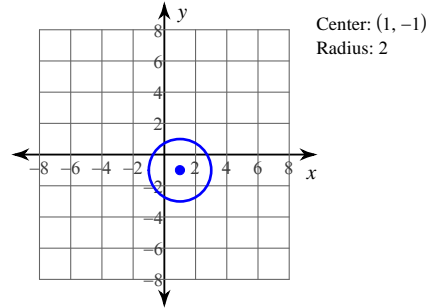
B)



C)

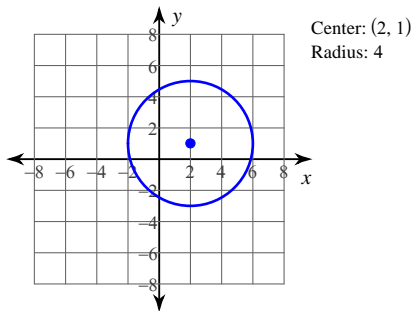


D)

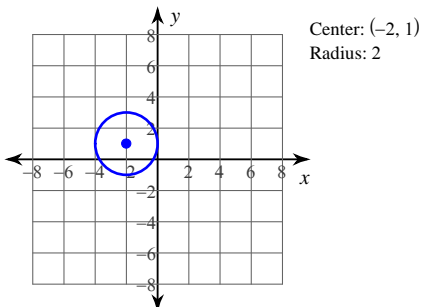


21) $(x + 2)^2 + (y - 1)^2 = 4$

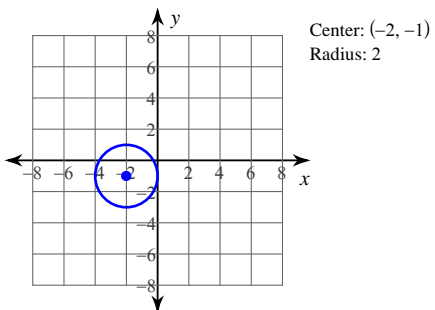
A)



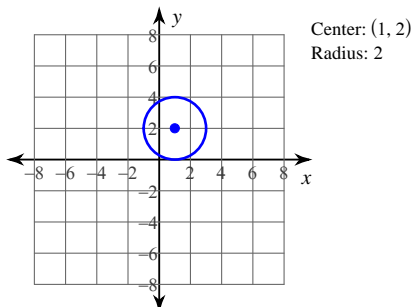
B)



C)

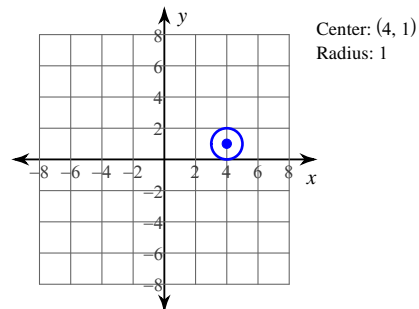


D)

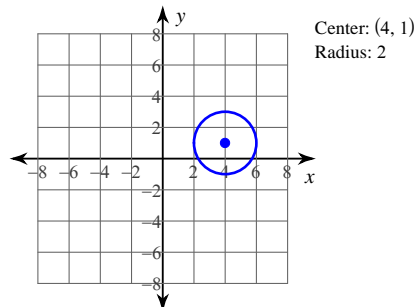


22) $x^2 + y^2 = 8x + 2y - 13$

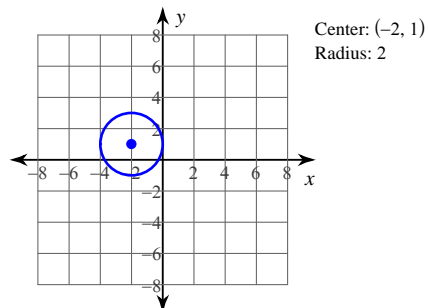
A)



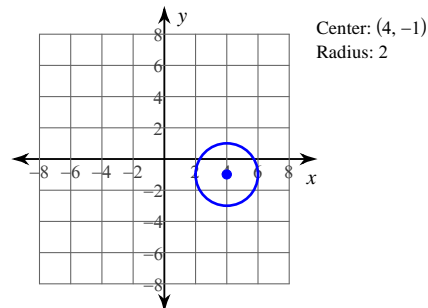
B)



C)

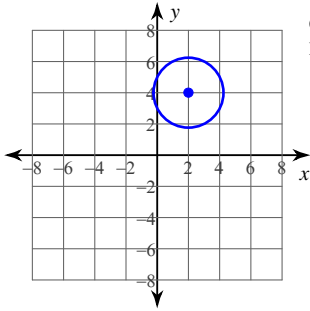


D)



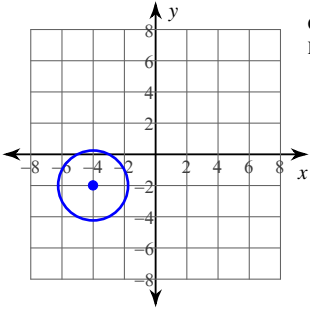
$$23) (x - 2)^2 + (y - 4)^2 = 5$$

A)



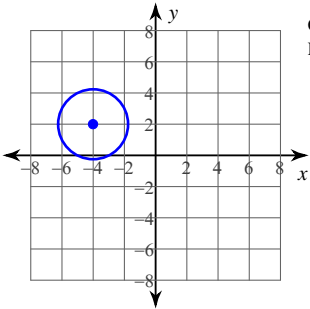
Center: (2, 4)
Radius: $\sqrt{5}$

B)



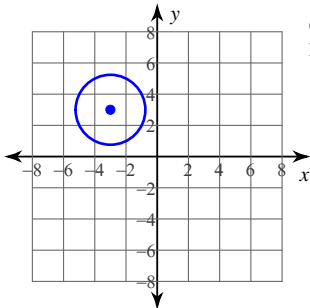
Center: (-4, -2)
Radius: $\sqrt{5}$

C)



Center: (-4, 2)
Radius: $\sqrt{5}$

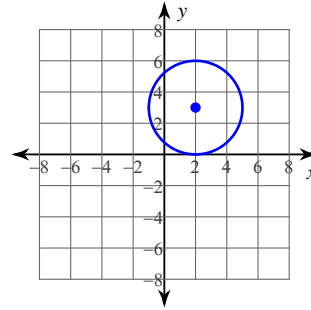
D)



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

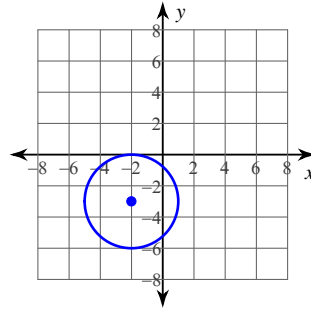
$$24) x^2 = -4 + 6y + 4x - y^2$$

A)



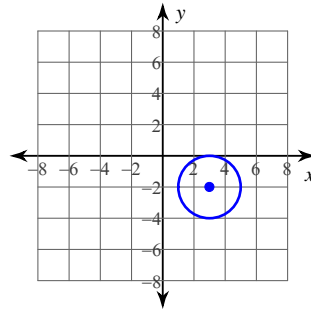
Center: (2, 3)
Radius: 3

B)



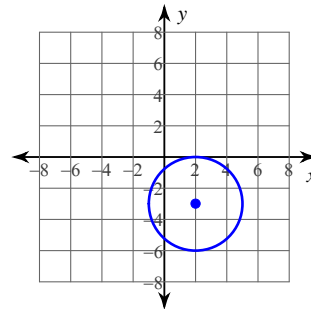
Center: (-2, -3)
Radius: 3

C)



Center: (3, -2)
Radius: 2

D)



Center: (2, -3)
Radius: 3



Answers to Assignment (ID: 7)

1) A
5) D
9) C
13) A
17) D
21) B

2) C
6) A
10) D
14) C
18) B
22) B

3) D
7) B
11) A
15) C
19) D
23) A

4) A
8) B
12) C
16) C
20) B
24) A

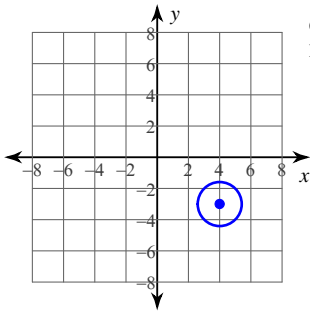


Assignment

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

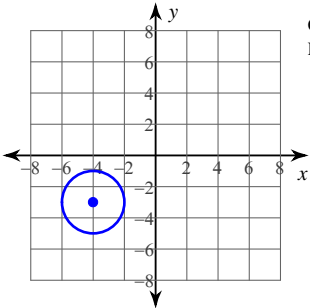
1) $23 = -x^2 - 6y - 8x - y^2$

A)



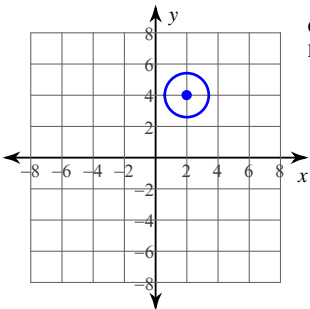
Center: $(4, -3)$
Radius: $\sqrt{2}$

B)



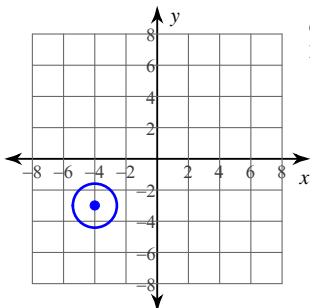
Center: $(-4, -3)$
Radius: 2

C)



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

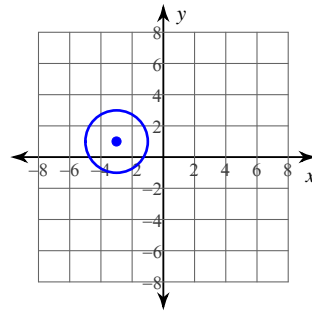
D)



Center: $(-4, -3)$
Radius: $\sqrt{2}$

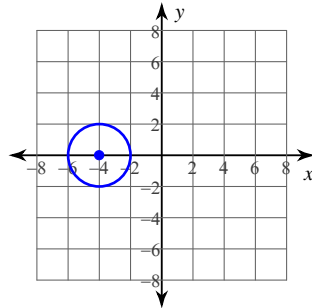
2) $y^2 + x^2 + 12 = 8y$

A)



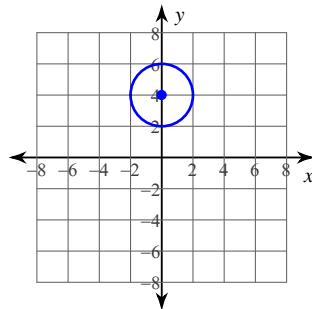
Center: $(-3, 1)$
Radius: 2

B)



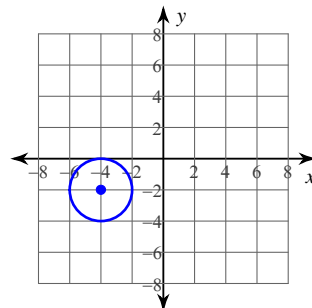
Center: $(-4, 0)$
Radius: 2

C)



Center: $(0, 4)$
Radius: 2

D)

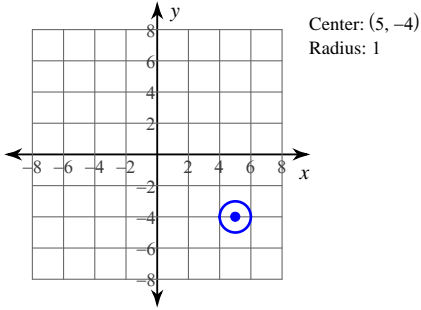


Center: $(-4, -2)$
Radius: 2

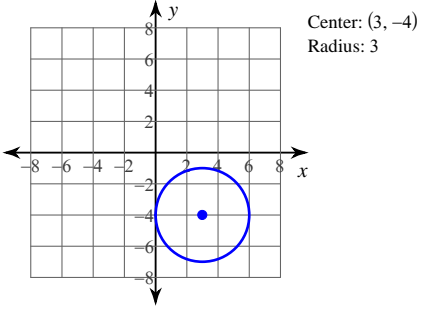


$$3) -6x + 16 + x^2 = -8y - y^2$$

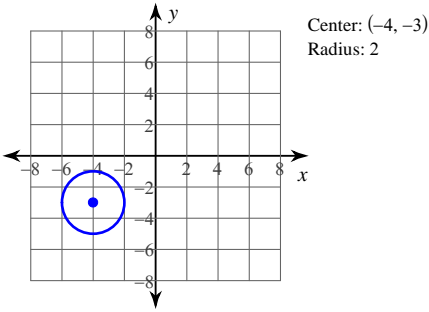
A)



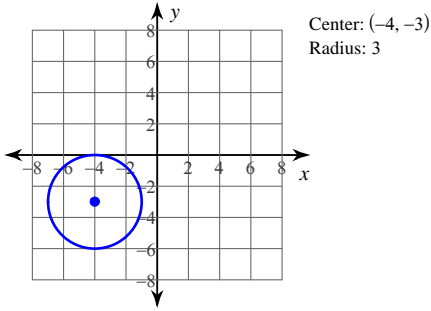
B)



C)

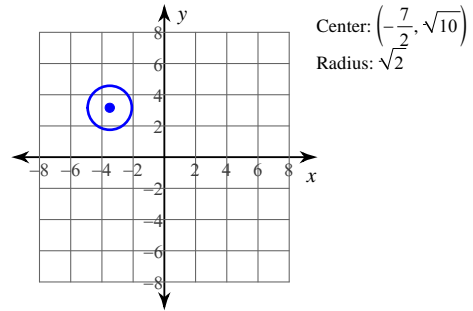


D)

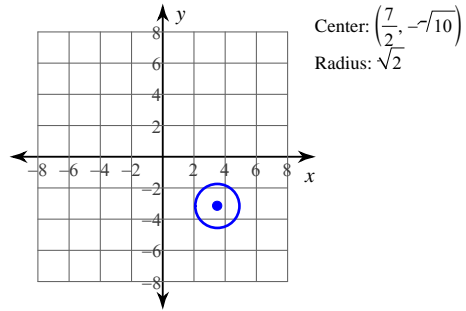


$$4) 4x^2 = 8y - \sqrt{10} + 28x - 4y^2 - 81$$

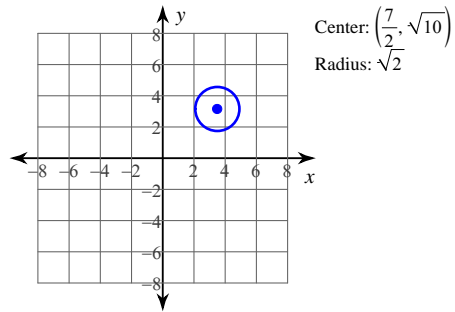
A)



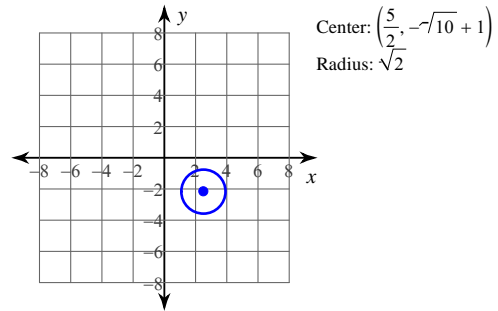
B)



C)

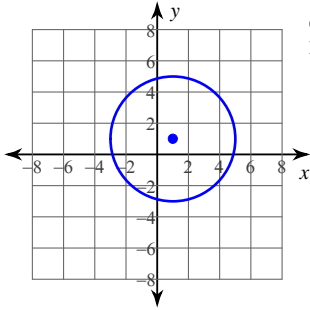


D)



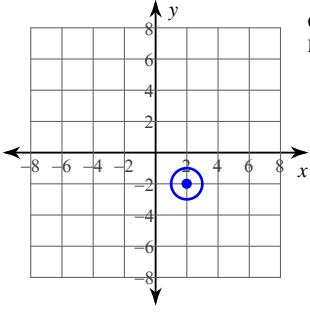
$$5) y^2 - 4x = -4y - x^2 - 4$$

A)



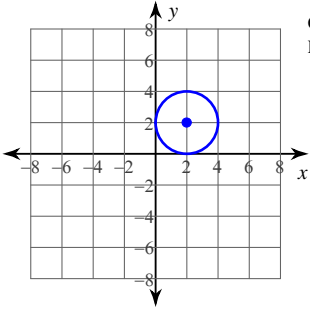
Center: (1, 1)
Radius: 4

B)



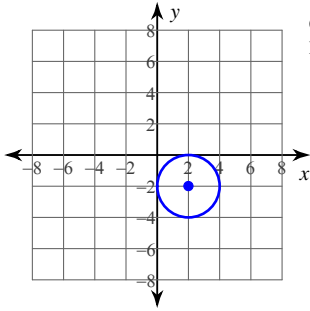
Center: (2, -2)
Radius: 1

C)



Center: (2, 2)
Radius: 2

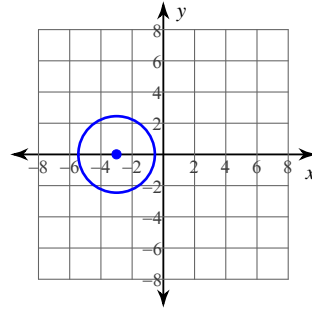
D)



Center: (2, -2)
Radius: 2

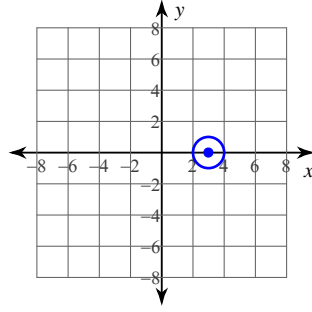
$$6) 0 = -y^2 - x^2 - 3 - 6x$$

A)



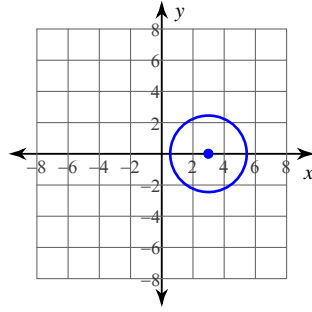
Center: $(-3, 0)$
Radius: $\sqrt{6}$

B)



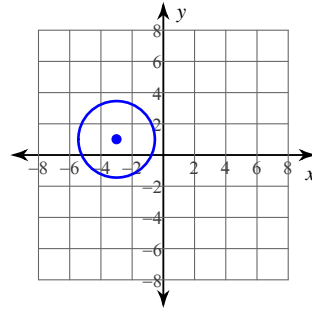
Center: (3, 0)
Radius: 1

C)



Center: $(3, 0)$
Radius: $\sqrt{6}$

D)

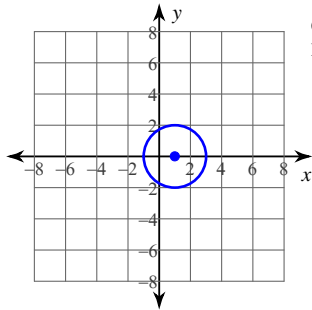


Center: $(-3, 1)$
Radius: $\sqrt{6}$



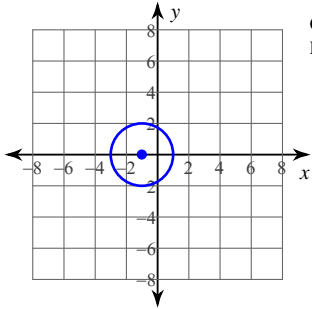
7) $2x + y^2 - 3 = -x^2$

A)



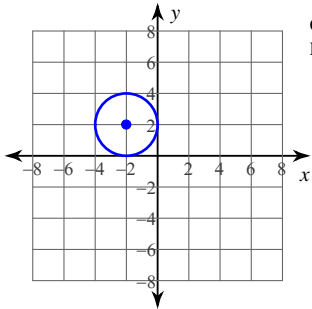
Center: (1, 0)
Radius: 2

B)



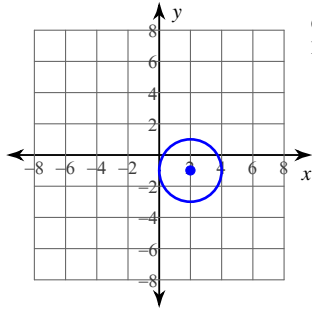
Center: (-1, 0)
Radius: 2

C)



Center: (-2, 2)
Radius: 2

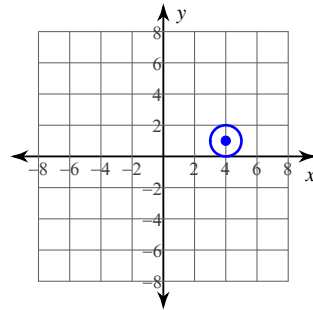
D)



Center: (2, -1)
Radius: 2

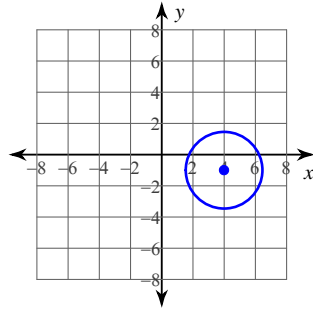
8) $x^2 - 2y + 11 + y^2 = -8x$

A)



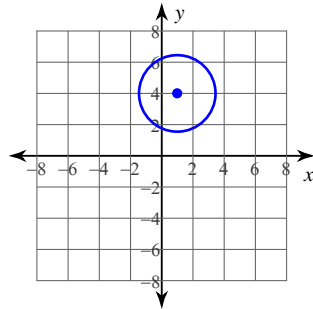
Center: (4, 1)
Radius: 1

B)



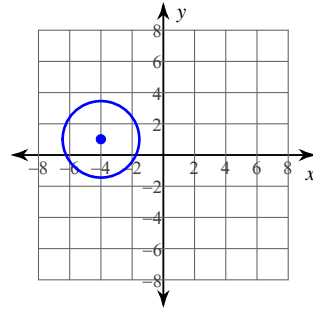
Center: (4, -1)
Radius: $\sqrt{6}$

C)



Center: (1, 4)
Radius: $\sqrt{6}$

D)

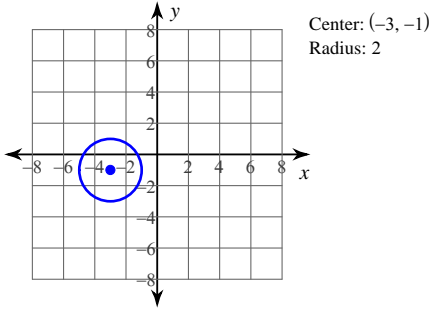


Center: (-4, 1)
Radius: $\sqrt{6}$

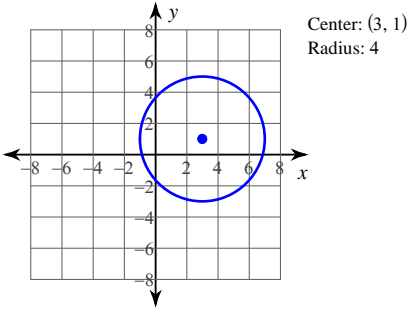


9) $-6x - 2y = -6 - x^2 - y^2$

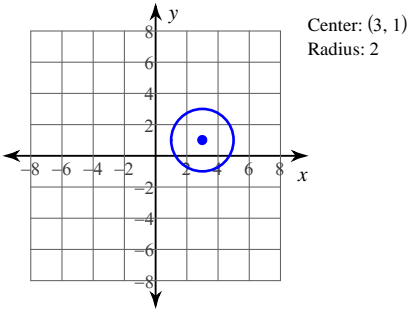
A)



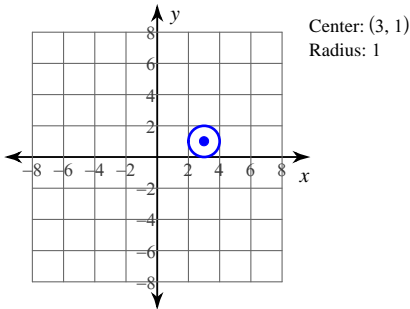
B)



C)

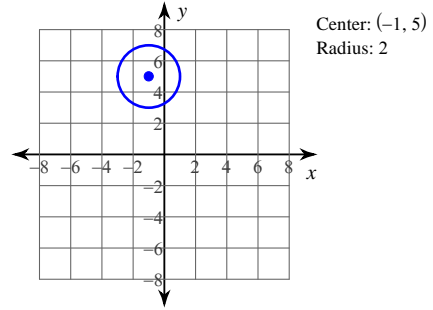


D)

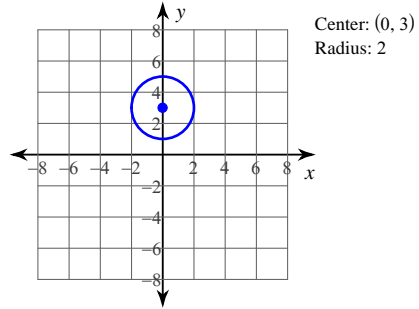


10) $5 + x^2 - 6y = -y^2$

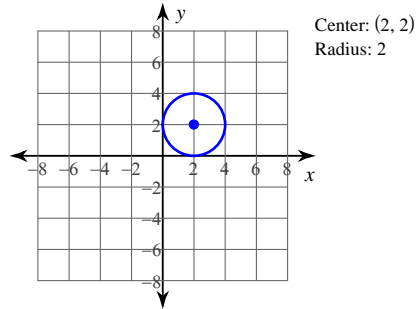
A)



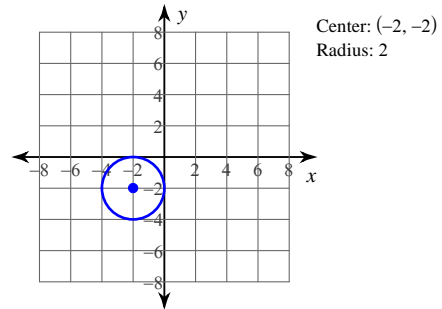
B)



C)

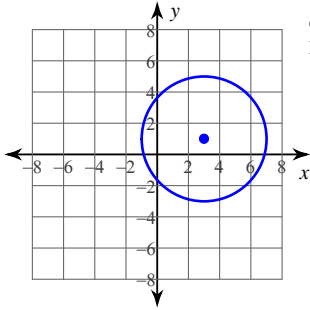


D)



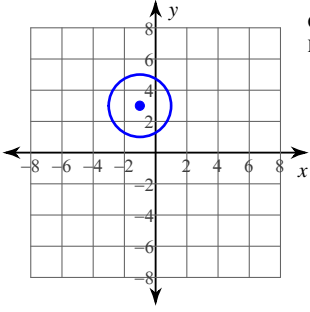
$$11) y^2 - 6y + 2x + x^2 = -6$$

A)



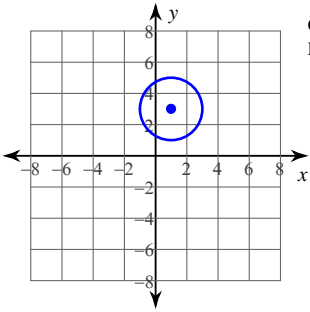
Center: (3, 1)
Radius: 4

B)



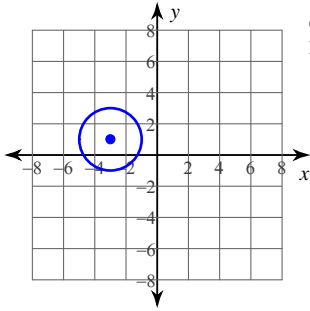
Center: (-1, 3)
Radius: 2

C)



Center: (1, 3)
Radius: 2

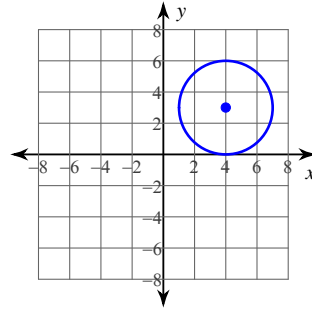
D)



Center: (-3, 1)
Radius: 2

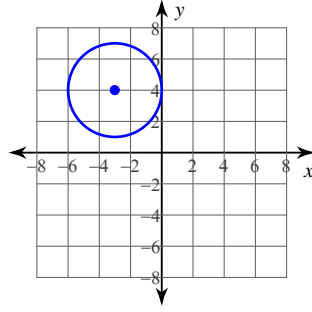
$$12) x^2 + 16 + 6x = -y^2 + 8y$$

A)



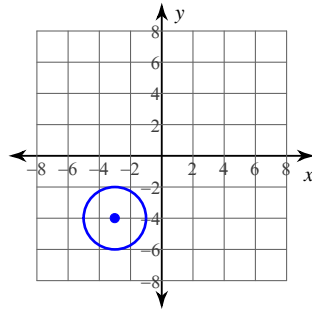
Center: (4, 3)
Radius: 3

B)



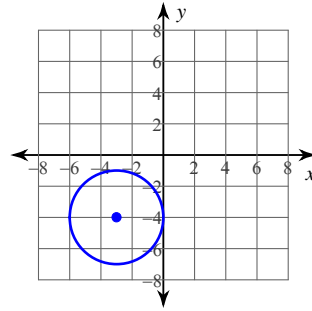
Center: (-3, 4)
Radius: 3

C)



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

D)

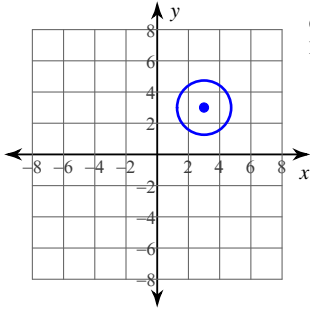


Center: (-3, -4)
Radius: 3



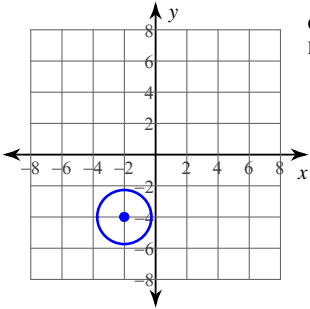
$$13) 6y + 22 = -y^2 - x^2 + 8x$$

A)



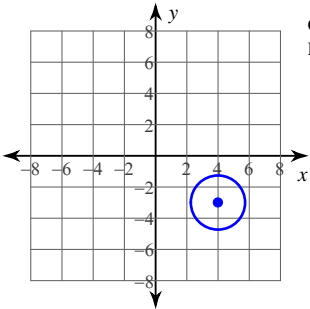
Center: $(3, 3)$
Radius: $\sqrt{3}$

B)



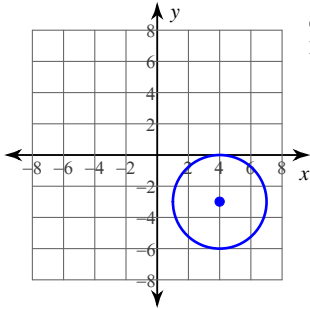
Center: $(-2, -4)$
Radius: $\sqrt{3}$

C)



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

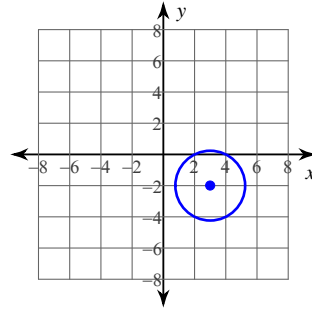
D)



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

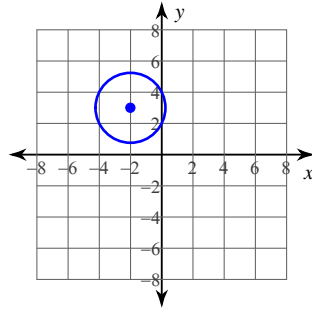
$$14) 8 + y^2 = -6y - x^2 + 4x$$

A)



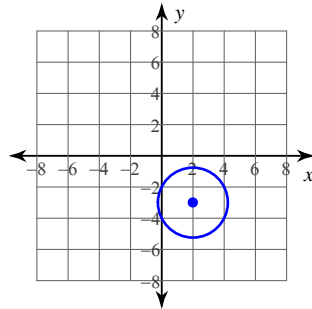
Center: $(3, -2)$
Radius: $\sqrt{5}$

B)



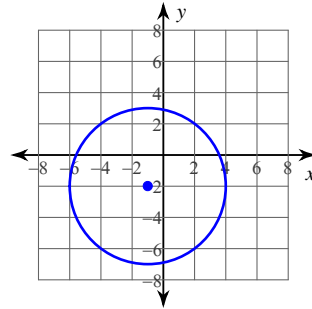
Center: $(-2, 3)$
Radius: $\sqrt{5}$

C)



Center: $(2, -3)$
Radius: $\sqrt{5}$

D)

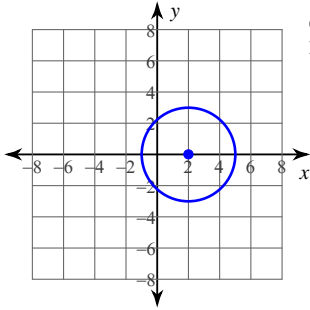


Center: $(-1, -2)$
Radius: 5



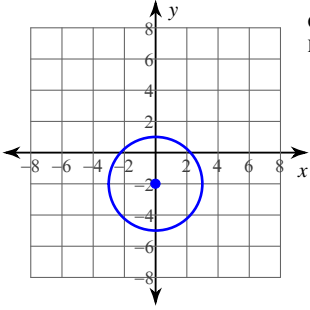
$$15) 4y + x^2 - 5 = -y^2$$

A)



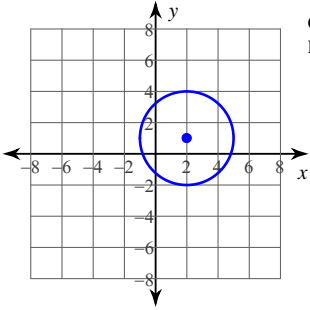
Center: (2, 0)
Radius: 3

B)



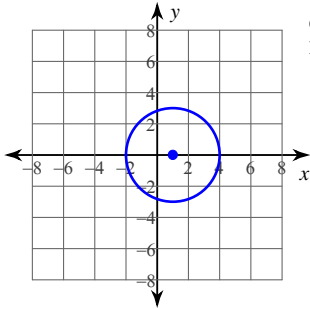
Center: (0, -2)
Radius: 3

C)



Center: (2, 1)
Radius: 3

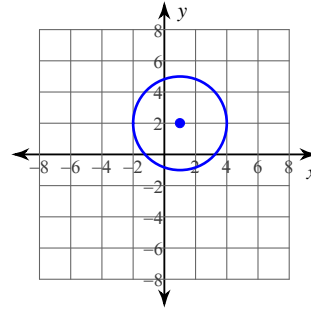
D)



Center: (1, 0)
Radius: 3

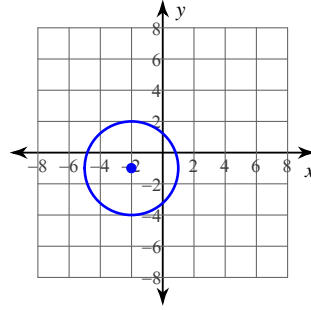
$$16) y^2 = -4x - x^2 + 4 - 2y$$

A)



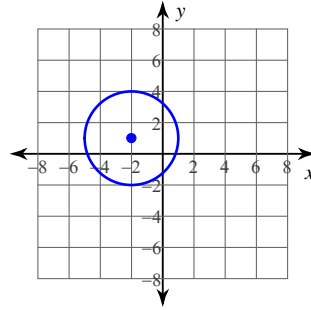
Center: (1, 2)
Radius: 3

B)



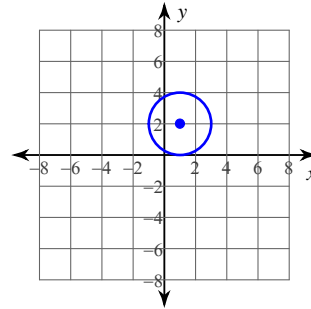
Center: (-2, -1)
Radius: 3

C)



Center: (-2, 1)
Radius: 3

D)

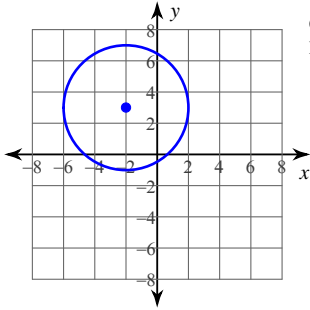


Center: (1, 2)
Radius: 2



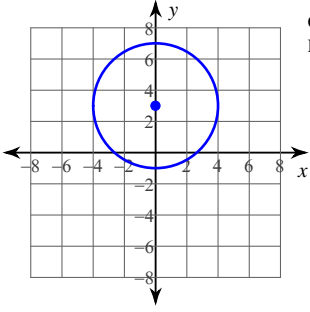
17) $-7 = 6x - y^2 - x^2$

A)



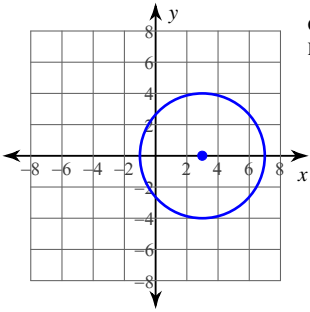
Center: $(-2, 3)$
Radius: 4

B)



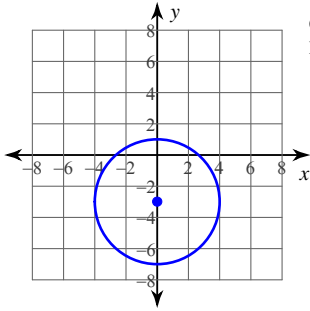
Center: $(0, 3)$
Radius: 4

C)



Center: $(3, 0)$
Radius: 4

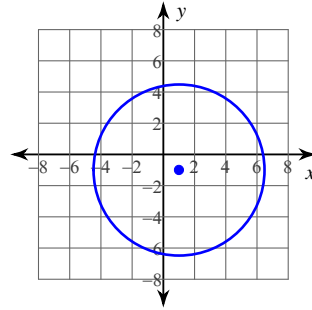
D)



Center: $(0, -3)$
Radius: 4

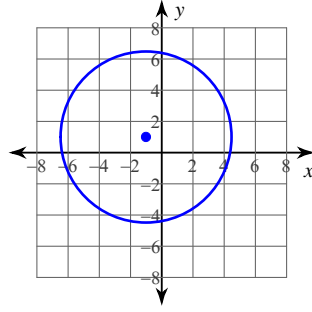
18) $-28 + y^2 + 2x + x^2 = 2y$

A)



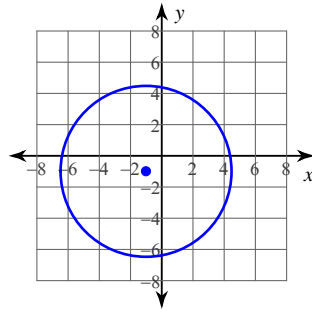
Center: $(1, -1)$
Radius: $\sqrt{30}$

B)



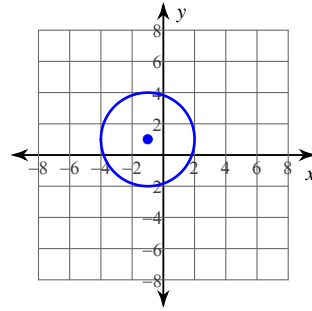
Center: $(-1, 1)$
Radius: $\sqrt{30}$

C)



Center: $(-1, -1)$
Radius: $\sqrt{30}$

D)

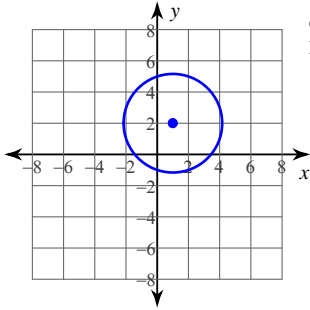


Center: $(-1, 1)$
Radius: 3



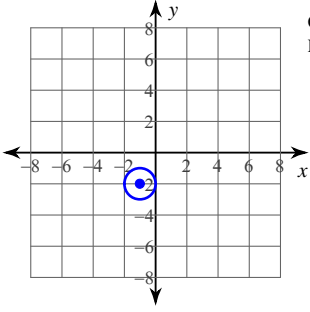
19) $-5 - 2x = 4y - y^2 - x^2$

A)



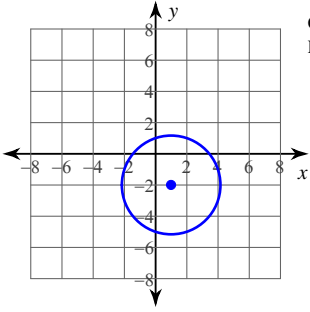
Center: $(1, 2)$
Radius: $\sqrt{10}$

B)



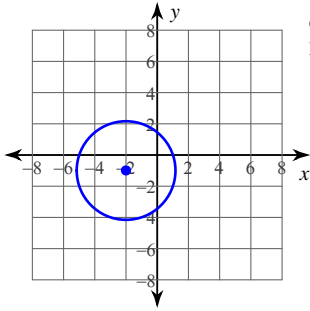
Center: $(-1, -2)$
Radius: 1

C)



Center: $(1, -2)$
Radius: $\sqrt{10}$

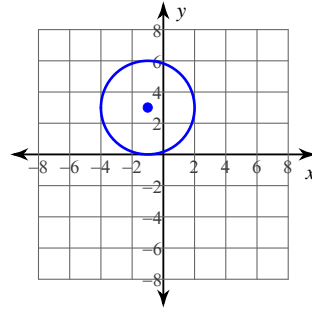
D)



Center: $(-2, -1)$
Radius: $\sqrt{10}$

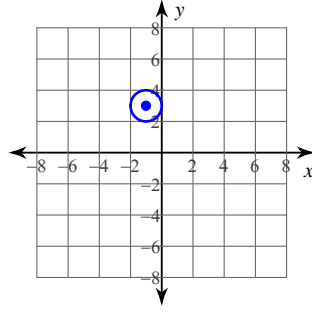
20) $y^2 + 9 + x^2 = -2x + 6y$

A)



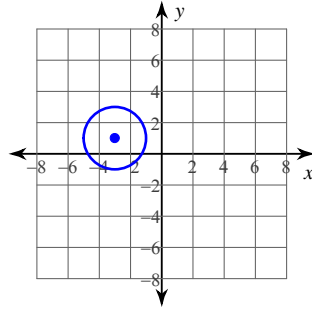
Center: $(-1, 3)$
Radius: 3

B)



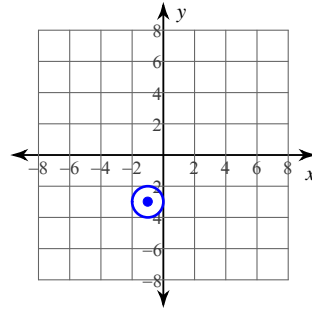
Center: $(-1, 3)$
Radius: 1

C)



Center: $(-3, 1)$
Radius: 2

D)

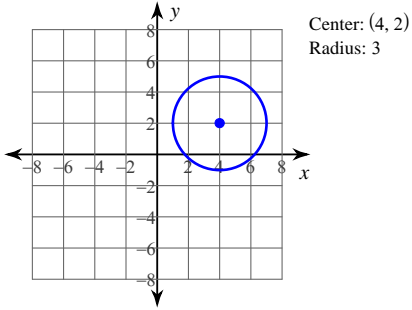


Center: $(-1, -3)$
Radius: 1

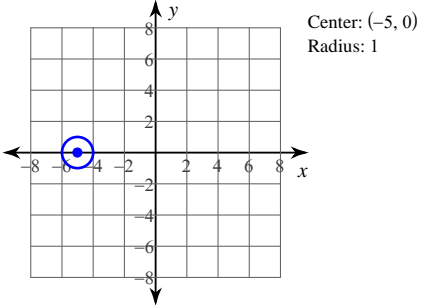


21) $8y - 4x + 19 + x^2 = -y^2$

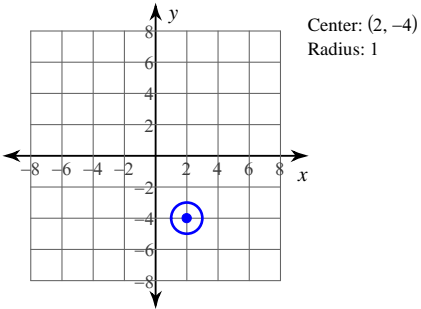
A)



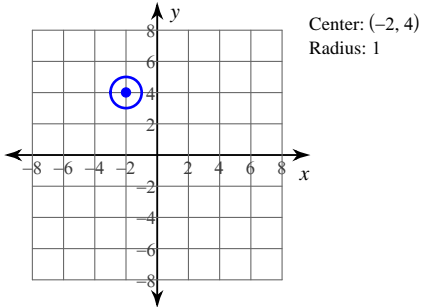
B)



C)

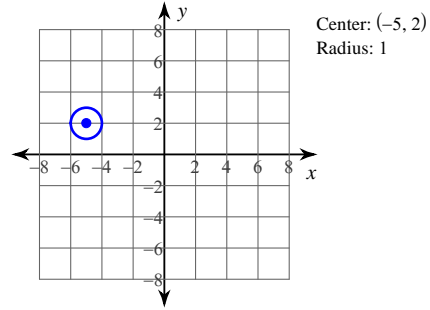


D)

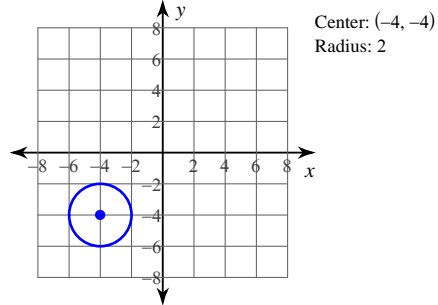


22) $x^2 + 28 = 8x - y^2 - 8y$

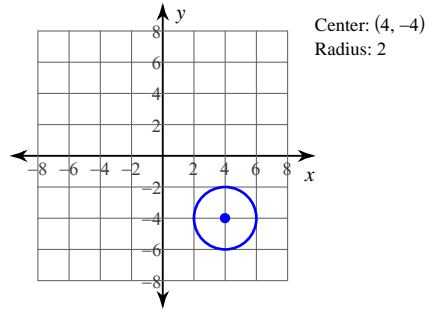
A)



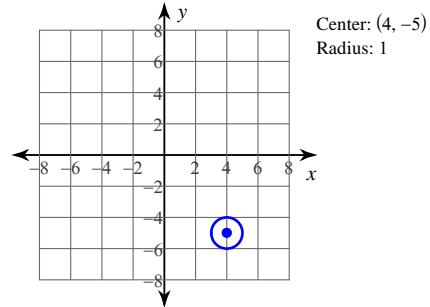
B)



C)

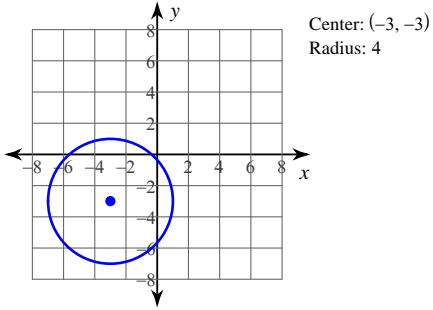


D)

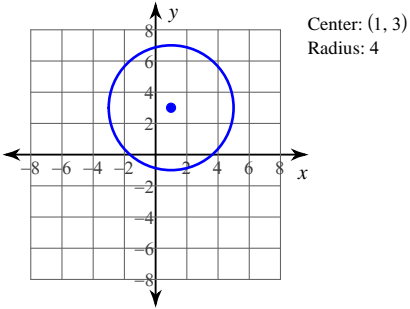


$$23) -6y + 6x = -y^2 - 2 - x^2$$

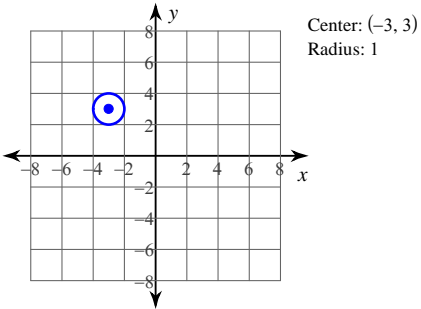
A)



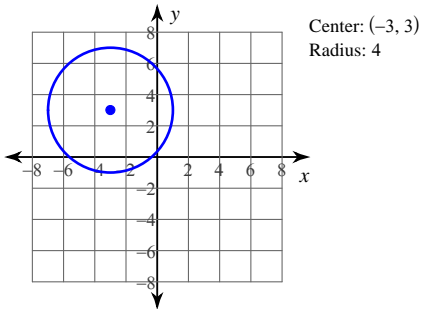
B)



C)

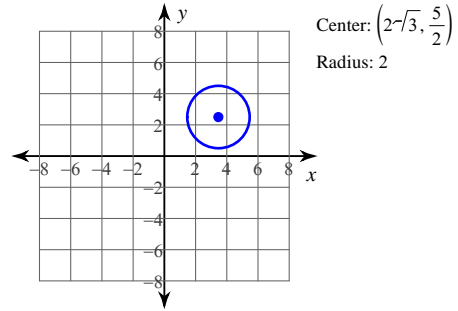


D)

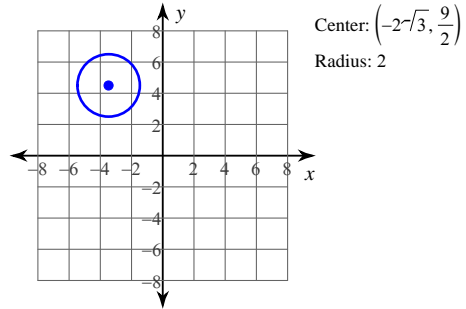


$$24) (x - 2\sqrt{3})^2 + \left(y + \frac{5}{2}\right)^2 = 4$$

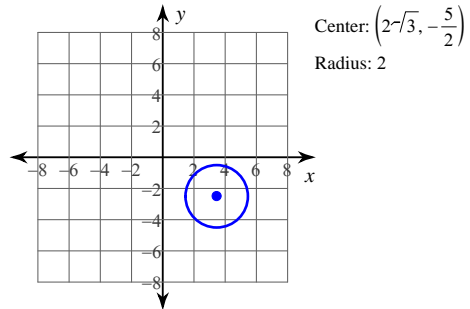
A)



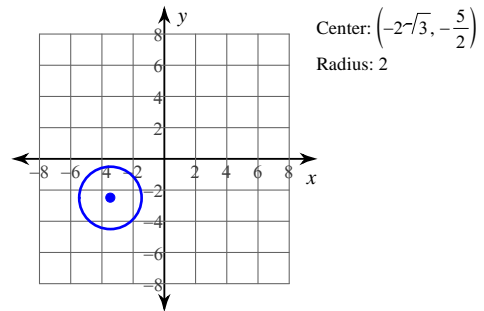
B)



C)



D)



Answers to Assignment (ID: 8)

1) D
5) D
9) C
13) C
17) C
21) C

2) C
6) A
10) B
14) C
18) B
22) C

3) B
7) B
11) B
15) B
19) A
23) D

4) C
8) D
12) B
16) B
20) B
24) C

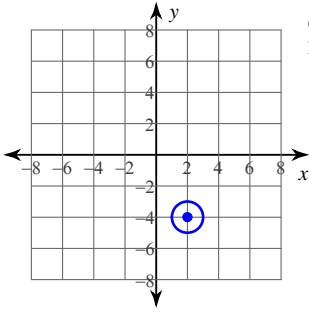


Assignment

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

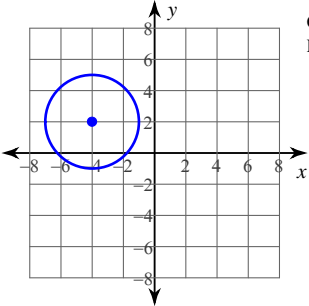
1) $(x - 4)^2 + y^2 = 1$

A)



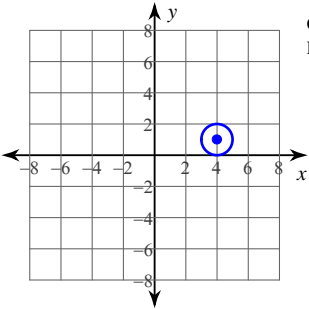
Center: (2, -4)
Radius: 1

B)



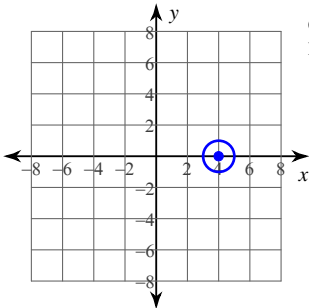
Center: (-4, 2)
Radius: 3

C)



Center: (4, 1)
Radius: 1

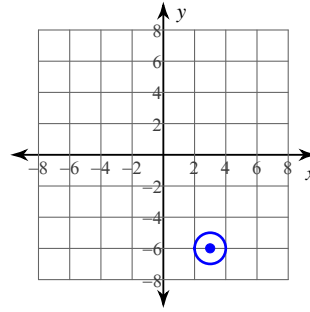
D)



Center: (4, 0)
Radius: 1

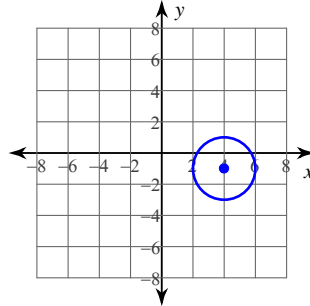
2) $(x + 4)^2 + (y + 1)^2 = 4$

A)



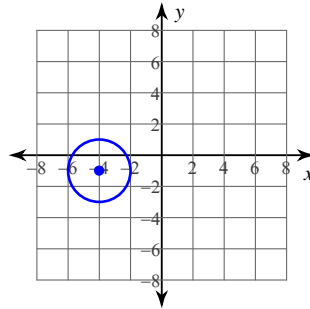
Center: (3, -6)
Radius: 1

B)



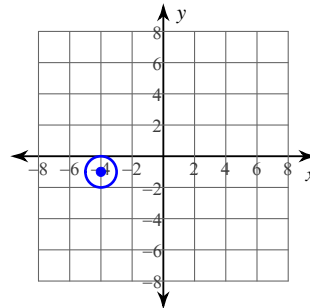
Center: (4, -1)
Radius: 2

C)



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

D)

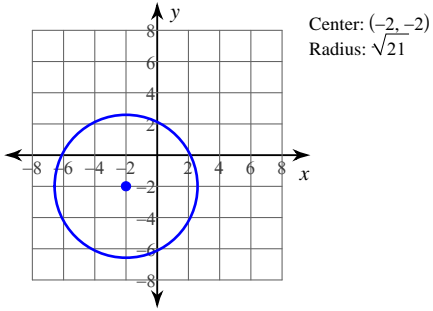


Center: (-4, -1)
Radius: 1

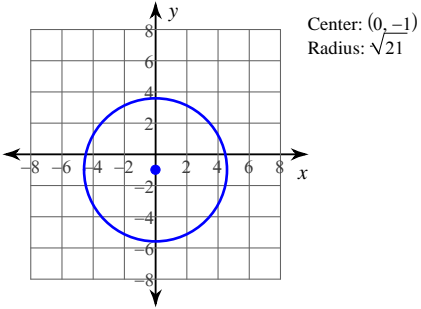


3) $(x + 2)^2 + (y + 2)^2 = 21$

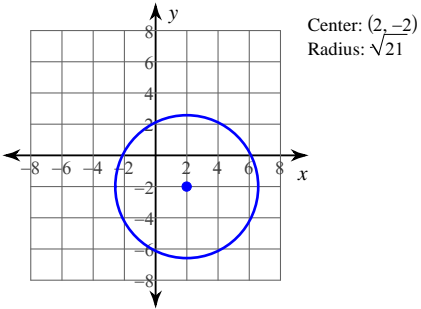
A)



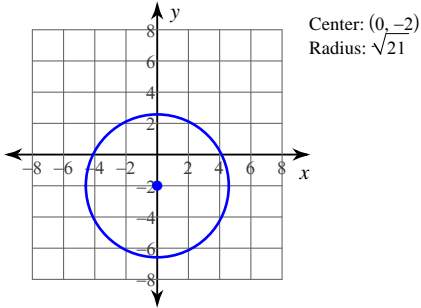
B)



C)

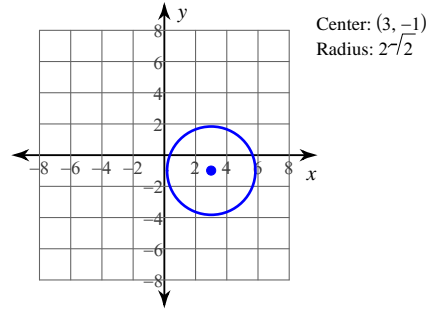


D)

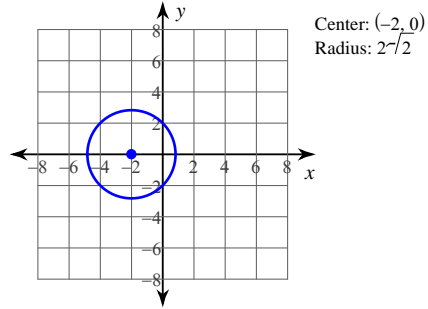


4) $(x - 2)^2 + y^2 = 8$

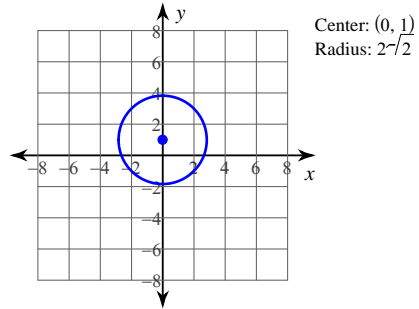
A)



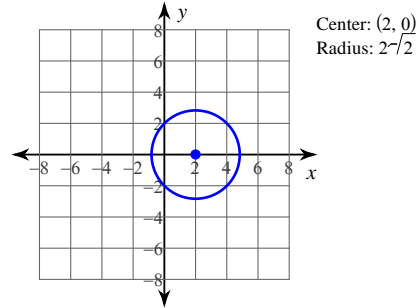
B)



C)

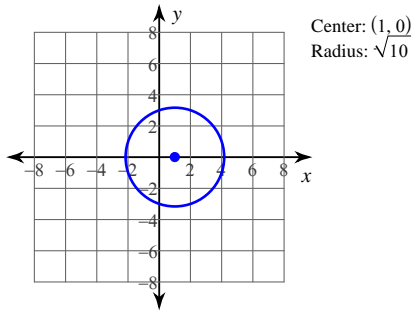


D)

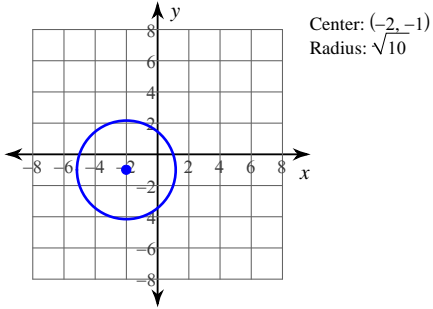


5) $(x + 1)^2 + (y - 2)^2 = 10$

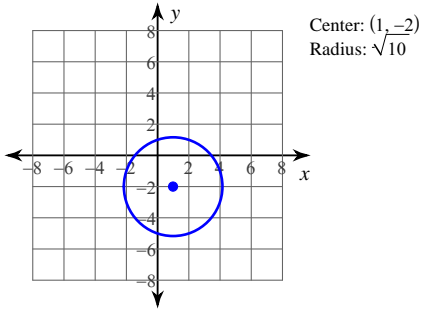
A)



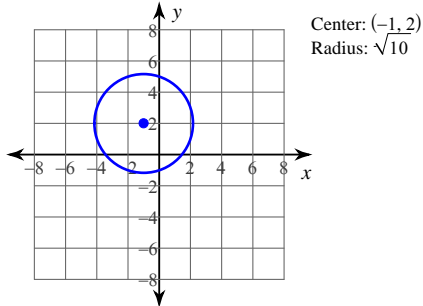
B)



C)

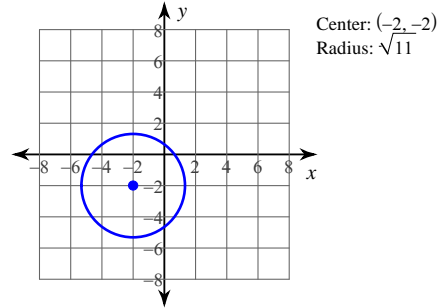


D)

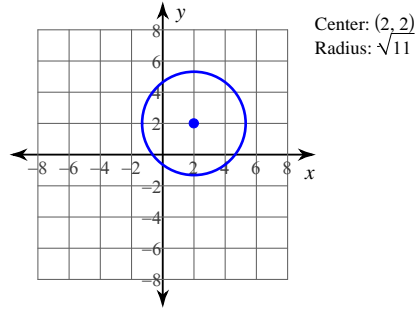


6) $y^2 - 3 = 4y - x^2 - 4x$

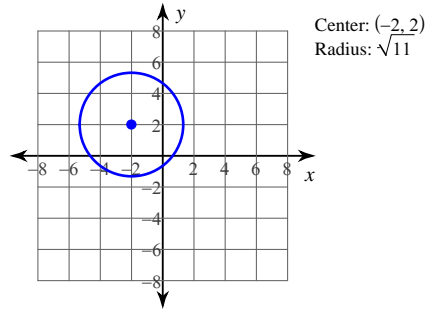
A)



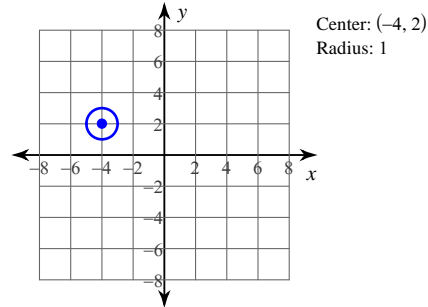
B)



C)

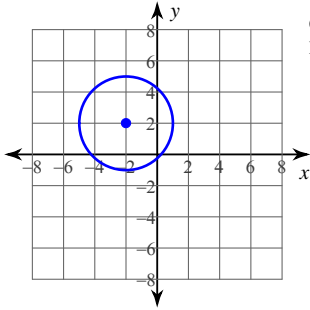


D)



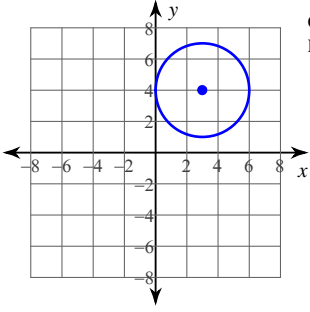
7) $y^2 - 6x = 8y - 16 - x^2$

A)



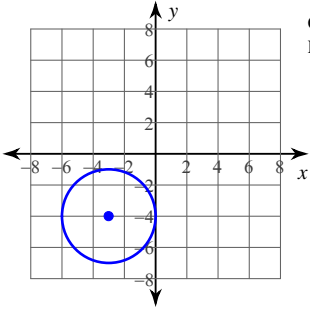
Center: (-2, 2)
Radius: 3

B)



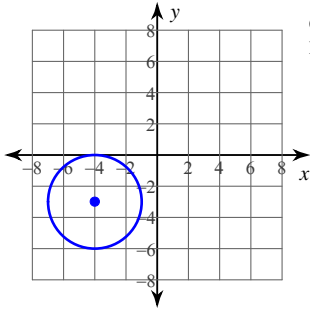
Center: (3, 4)
Radius: 3

C)



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

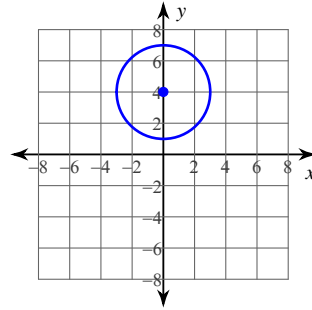
D)



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

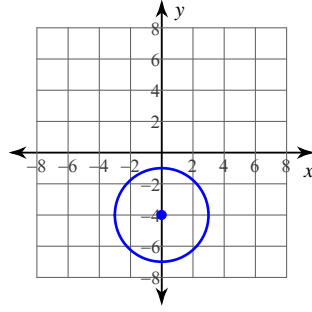
8) $x^2 + 8y + y^2 = -7$

A)



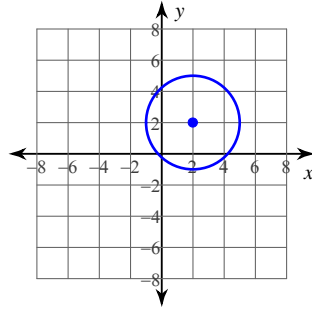
Center: (0, 4)
Radius: 3

B)



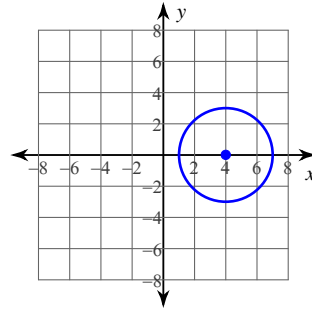
Center: (0, -4)
Radius: 3

C)



Center: (2, 2)
Radius: 3

D)

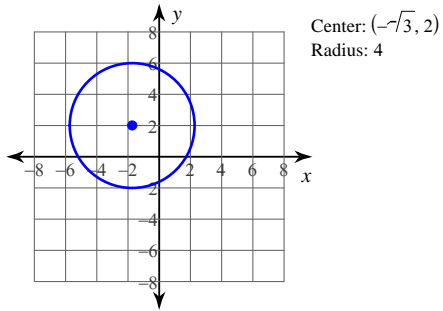


Center: (4, 0)
Radius: 3

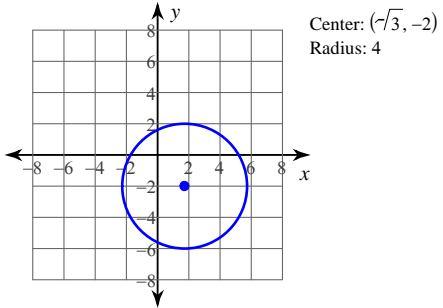


9) $y^2 - 2x\sqrt{3} + 4y - 9 = -x^2$

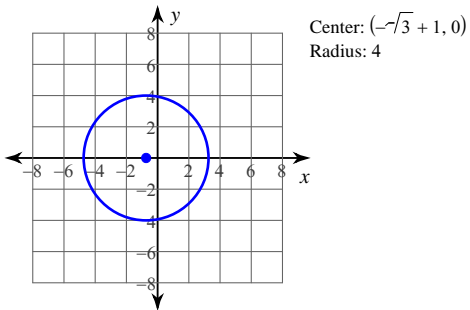
A)



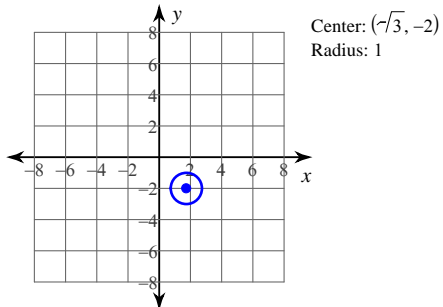
B)



C)

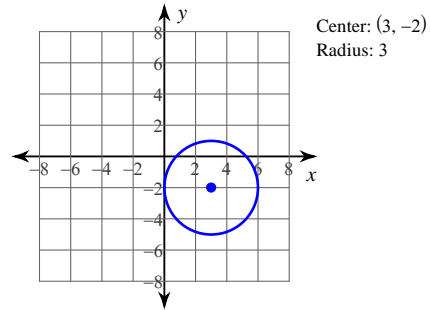


D)

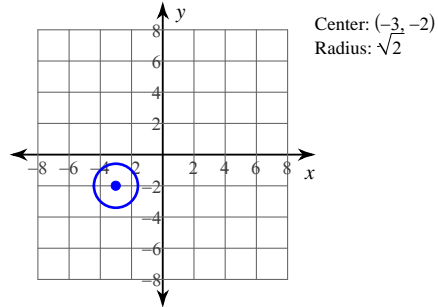


10) $x^2 + 4y + 6x = -y^2 - 11$

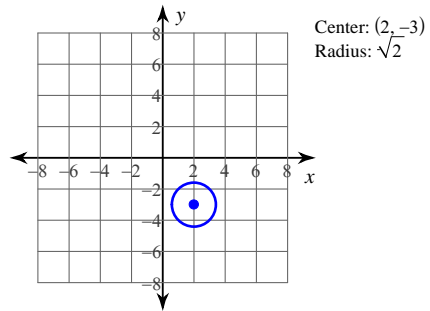
A)



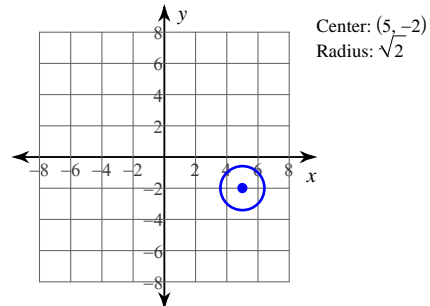
B)



C)

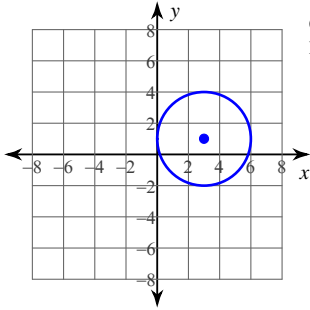


D)



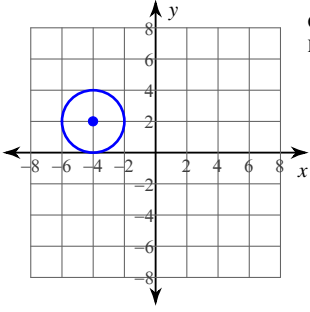
$$11) 0 = -2x - y^2 - 6y - x^2 - 9$$

A)



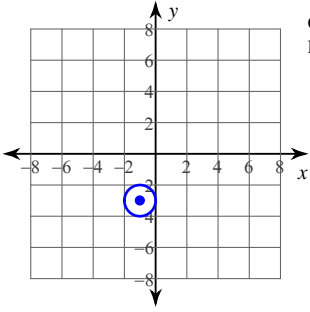
Center: (3, 1)
Radius: 3

B)



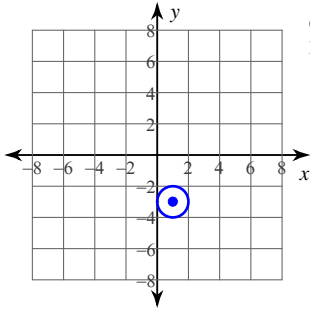
Center: (-4, 2)
Radius: 2

C)



Center: (-1, -3)
Radius: 1

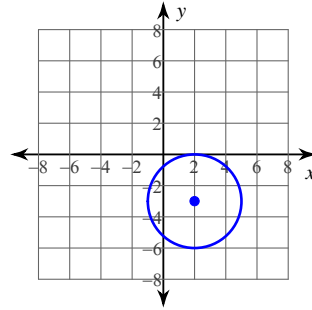
D)



Center: (1, -3)
Radius: 1

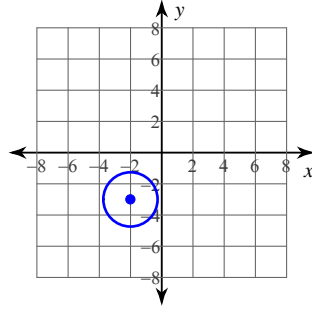
$$12) 4x = -6y - y^2 - 10 - x^2$$

A)



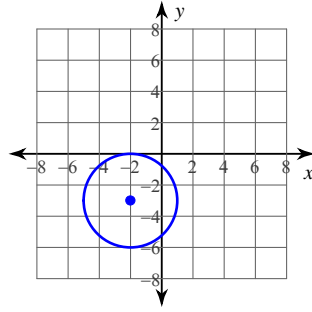
Center: (2, -3)
Radius: 3

B)



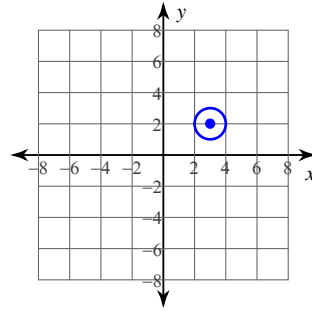
Center: (-2, -3)
Radius: $\sqrt{3}$

C)



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

D)

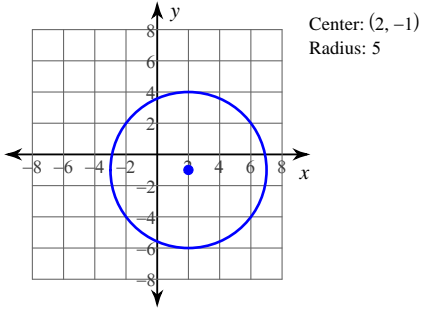


Center: (3, 2)
Radius: 1

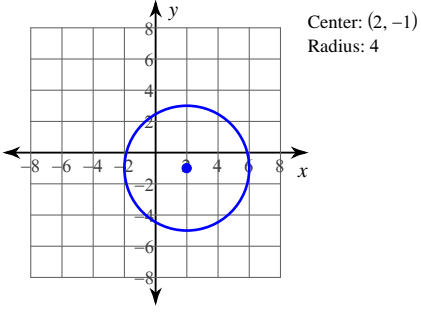


$$13) 2y + x^2 = 20 + 4x - y^2$$

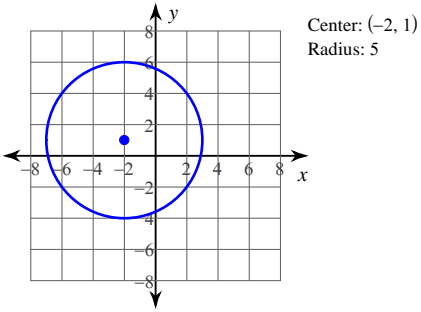
A)



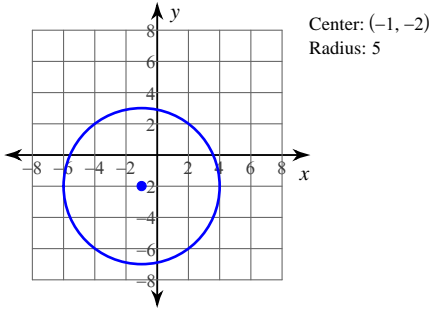
B)



C)

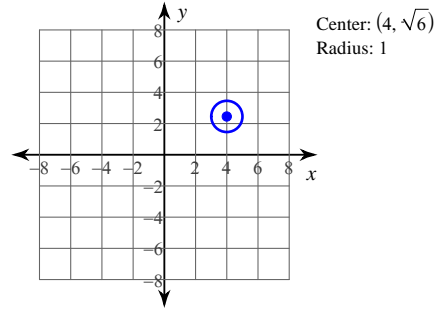


D)

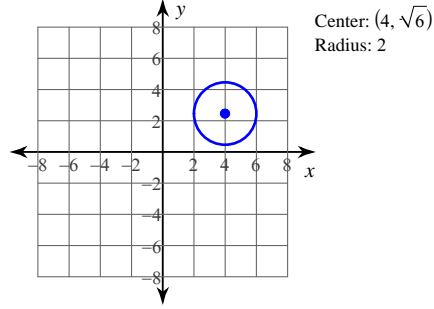


$$14) -8x - 2y\sqrt{6} + 21 = -x^2 - y^2$$

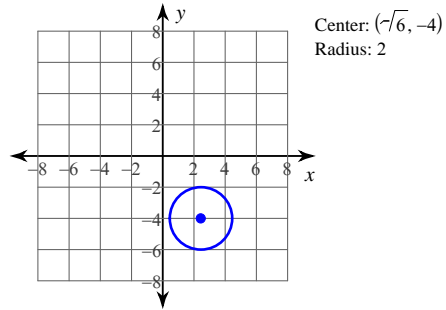
A)



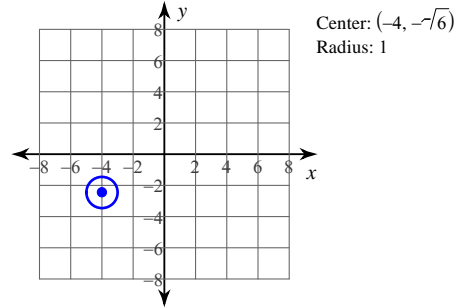
B)



C)

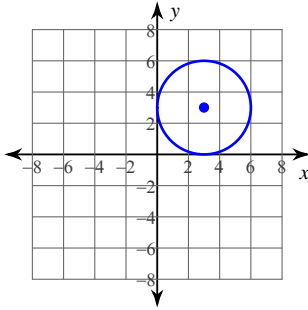


D)



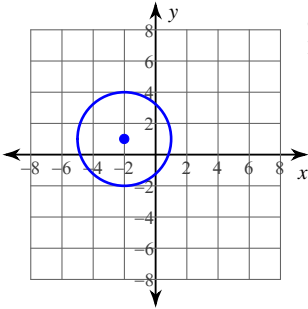
$$15) y^2 - 2y + 4x = -x^2 + 4$$

A)



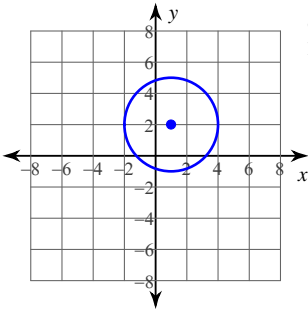
Center: (3, 3)
Radius: 3

B)



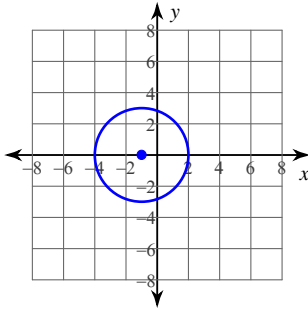
Center: (-2, 1)
Radius: 3

C)



Center: (1, 2)
Radius: 3

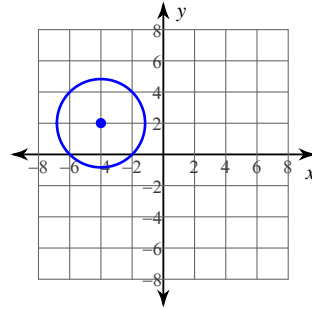
D)



Center: (-1, 0)
Radius: 3

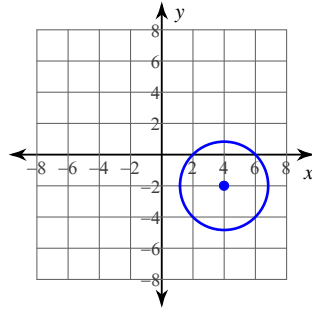
$$16) y^2 - 4y + x^2 = -12 - 8x$$

A)



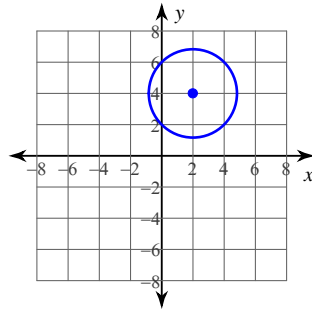
Center: (-4, 2)
Radius: $2\sqrt{2}$

B)



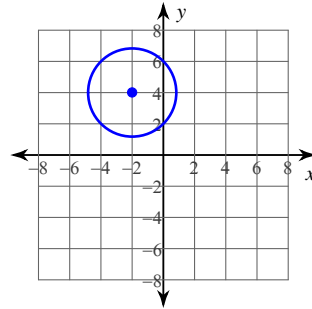
Center: (4, -2)
Radius: $2\sqrt{2}$

C)



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

D)

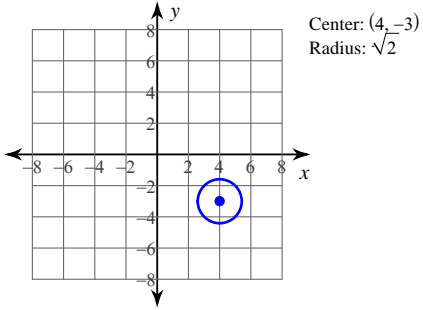


Center: (-2, 4)
Radius: $2\sqrt{2}$

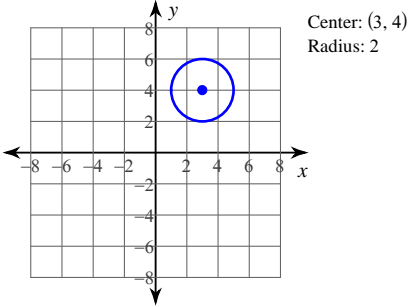


$$17) y^2 + 23 + x^2 = 8y + 6x$$

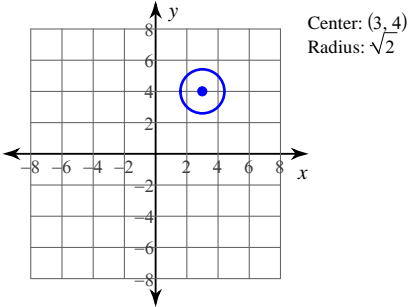
A)



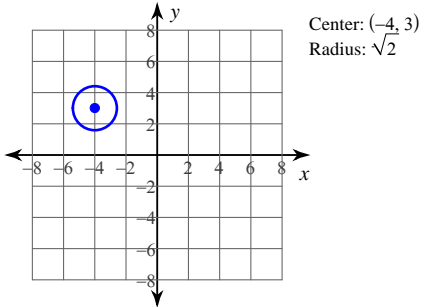
B)



C)

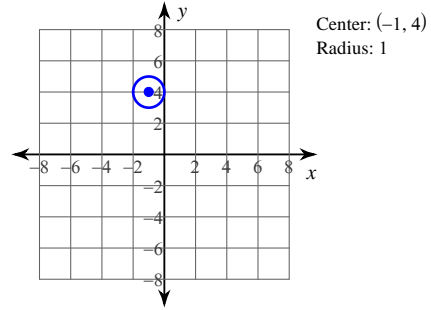


D)

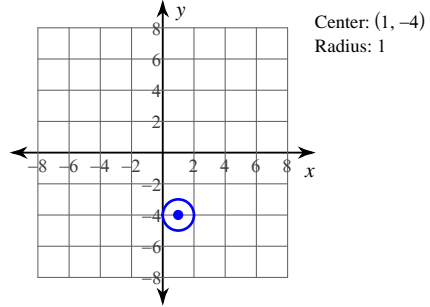


$$18) 16 + x^2 + y^2 = 2x + 8y$$

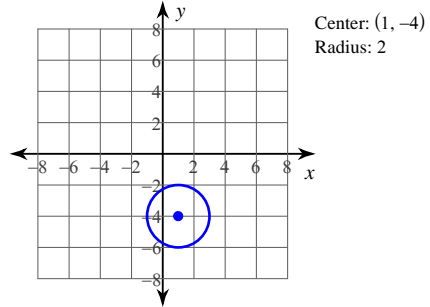
A)



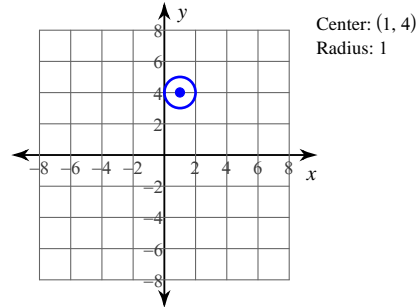
B)



C)

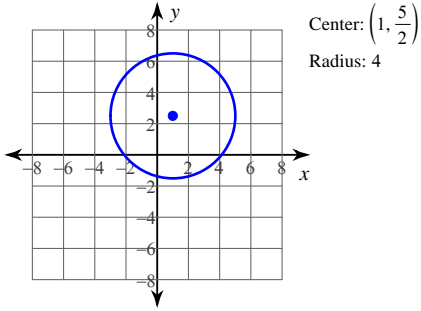


D)

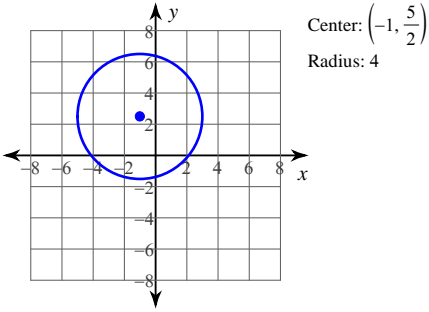


19) $4y^2 = -8x + 20y + 35 - 4x^2$

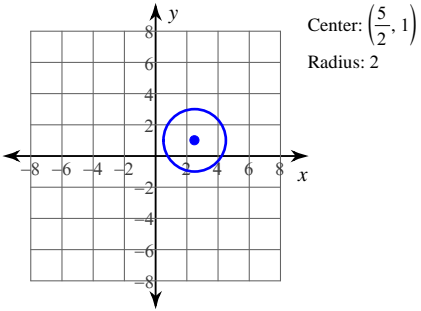
A)



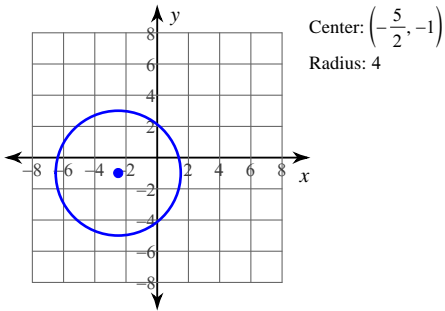
B)



C)

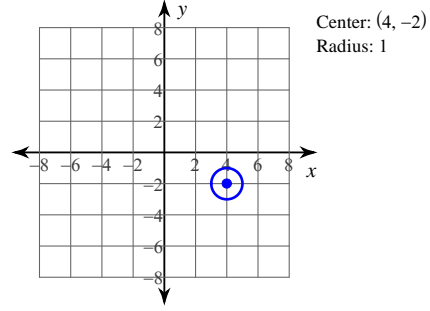


D)

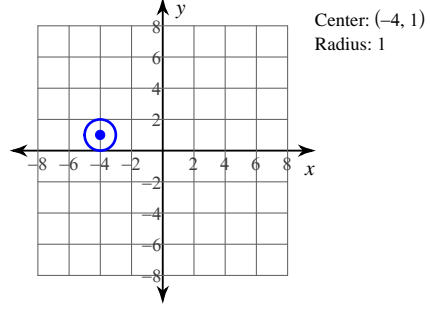


20) $y^2 + 4y = 8x - 19 - x^2$

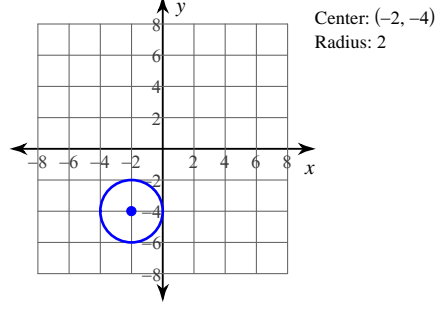
A)



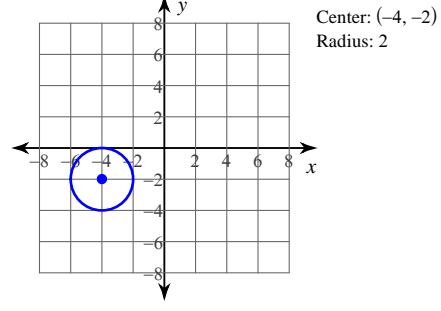
B)



C)

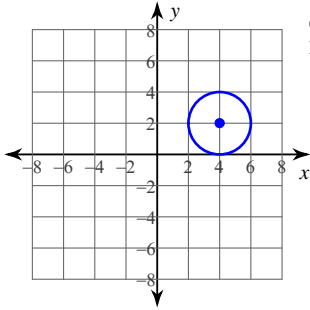


D)



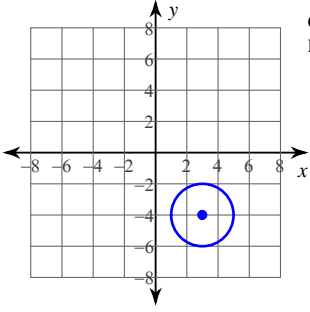
21) $21 + y^2 = -6x - x^2 - 8y$

A)



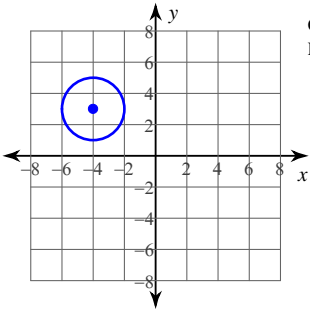
Center: (4, 2)
Radius: 2

B)



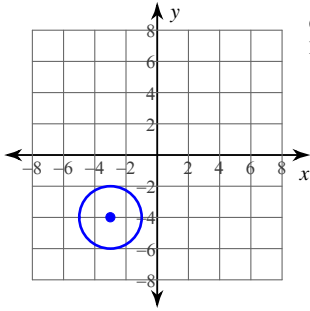
Center: (3, -4)
Radius: 2

C)



Center: (-4, 3)
Radius: 2

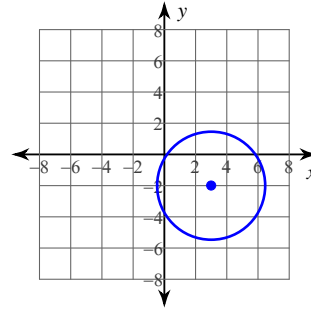
D)



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

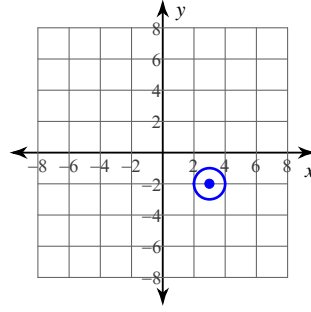
22) $-6x + x^2 = -4y - 1 - y^2$

A)



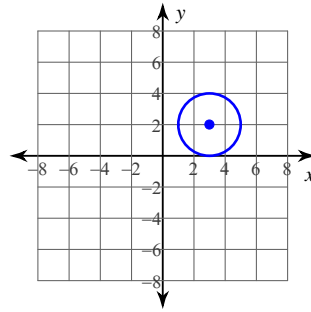
Center: (3, -2)
Radius: $2\sqrt{3}$

B)



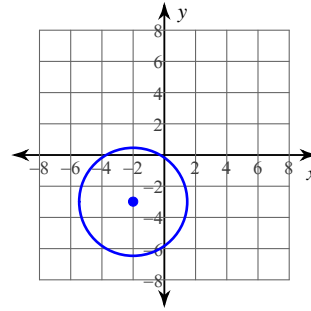
Center: (3, -2)
Radius: 1

C)



Center: (3, 2)
Radius: 2

D)

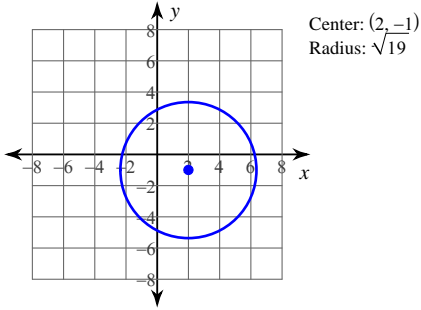


Center: (-2, -3)
Radius: $2\sqrt{3}$

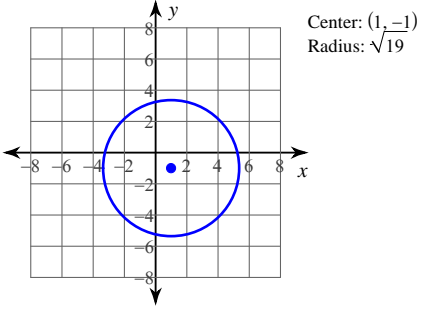


23) $x^2 - 2x = -2y - y^2 + 17$

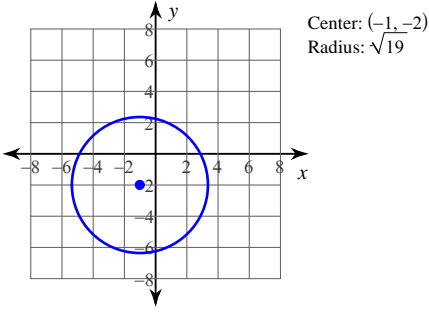
A)



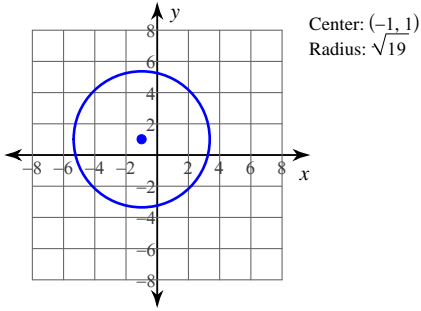
B)



C)

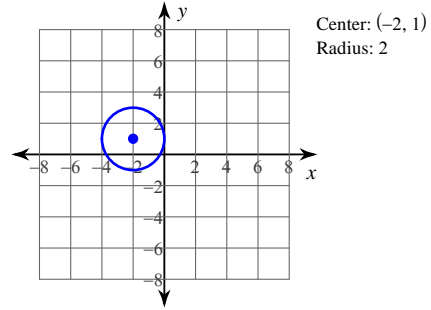


D)

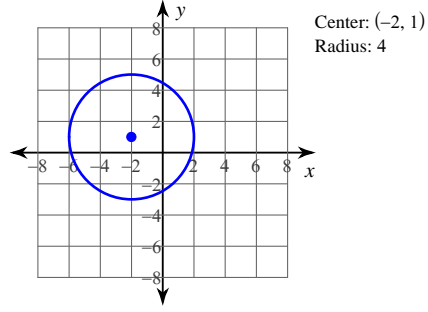


24) $1 + 4x = -y^2 + 2y - x^2$

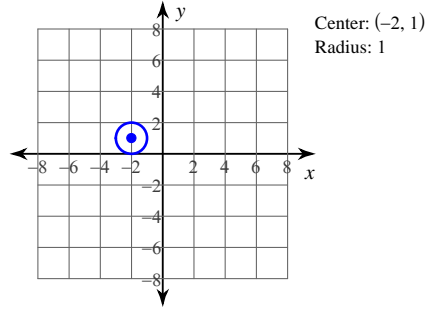
A)



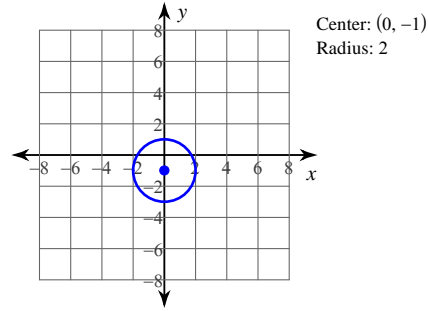
B)



C)



D)



Answers to Assignment (ID: 9)

1) D
5) D
9) B
13) A
17) C
21) D

2) C
6) C
10) B
14) A
18) D
22) A

3) A
7) B
11) C
15) B
19) B
23) B

4) D
8) B
12) B
16) A
20) A
24) A

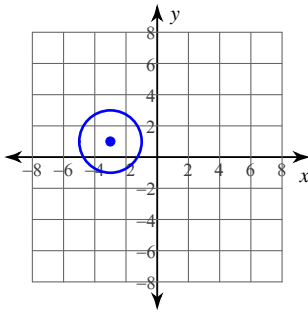


Assignment

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

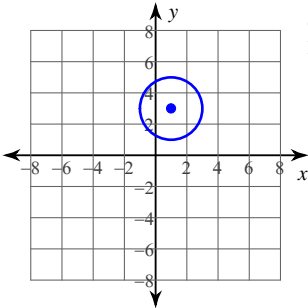
1) $x^2 + y^2 = -6 + 2y - 6x$

A)



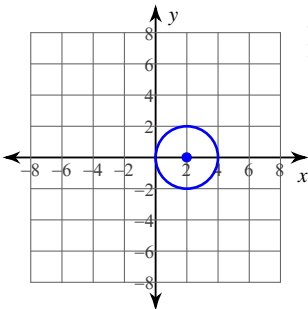
Center: (-3, 1)
Radius: 2

B)



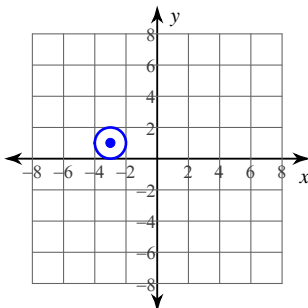
Center: (1, 3)
Radius: 2

C)



Center: (2, 0)
Radius: 2

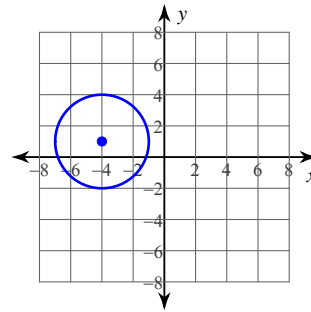
D)



Center: (-3, 1)
Radius: 1

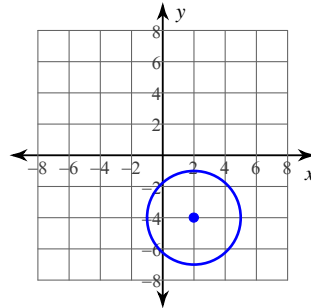
2) $-8x + x^2 = -y^2 - 11 + 4y$

A)



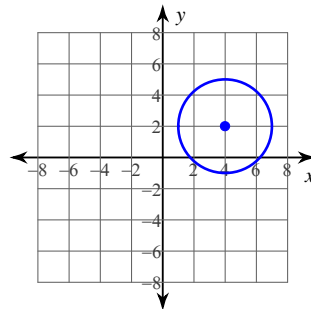
Center: (-4, 1)
Radius: 3

B)



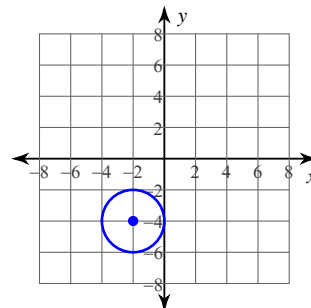
Center: (2, -4)
Radius: 3

C)



Center: (4, 2)
Radius: 3

D)

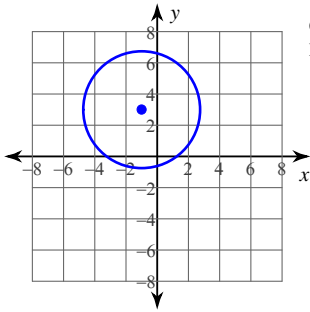


Center: (-2, -4)
Radius: 2



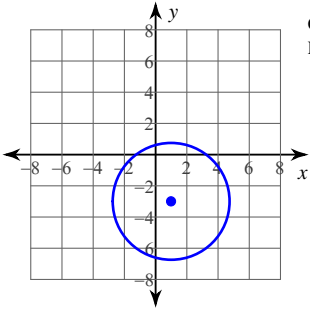
3) $y^2 - 2x - 4 + x^2 = 6y$

A)



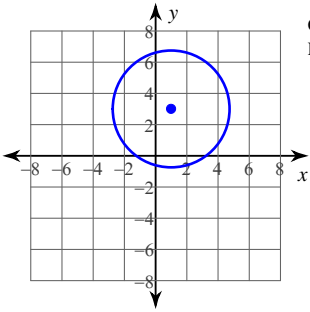
Center: $(-1, 3)$
Radius: $\sqrt{14}$

B)



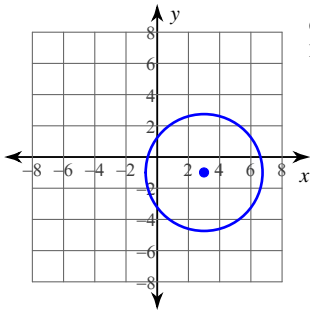
Center: $(1, -3)$
Radius: $\sqrt{14}$

C)



Center: $(1, 3)$
Radius: $\sqrt{14}$

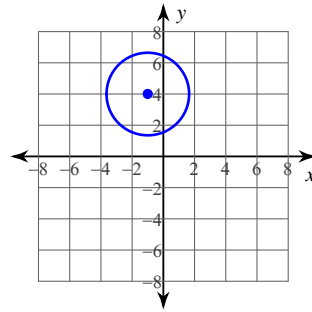
D)



Center: $(3, -1)$
Radius: $\sqrt{14}$

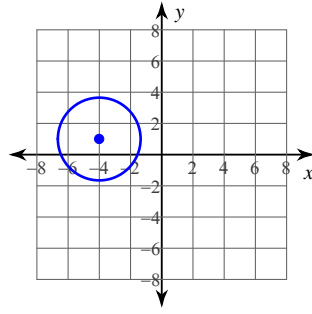
4) $2x + 10 + x^2 = 8y - y^2$

A)



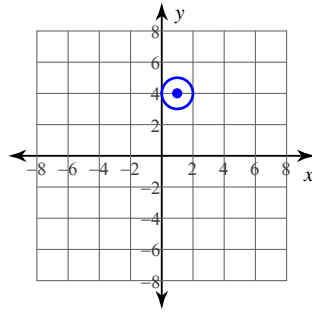
Center: $(-1, 4)$
Radius: $\sqrt{7}$

B)



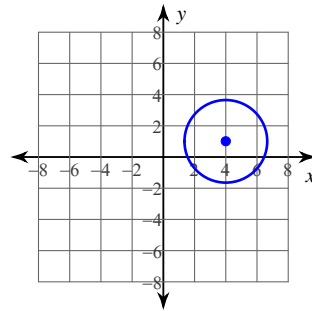
Center: $(-4, 1)$
Radius: $\sqrt{7}$

C)



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

D)

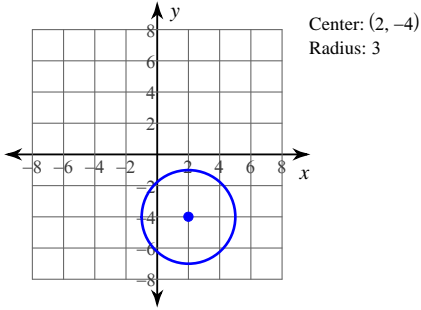


Center: $(4, 1)$
Radius: $\sqrt{7}$

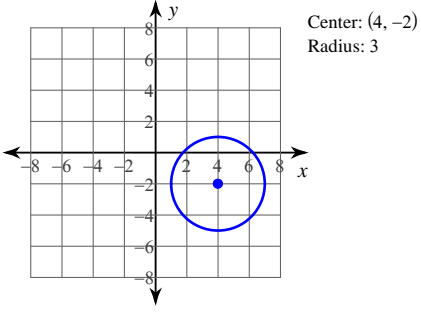


5) $y^2 + x^2 = -8y - 11 - 4x$

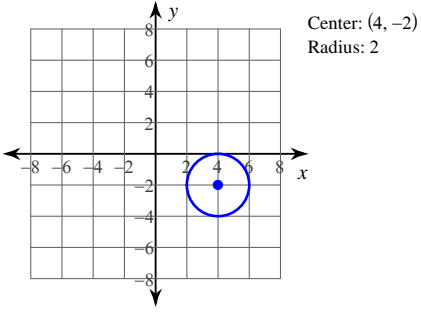
A)



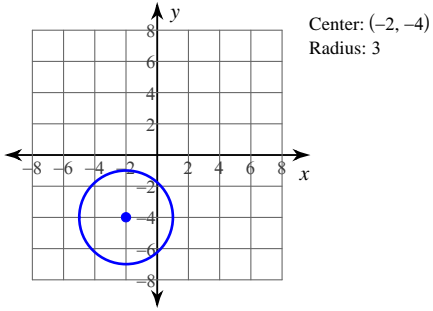
B)



C)

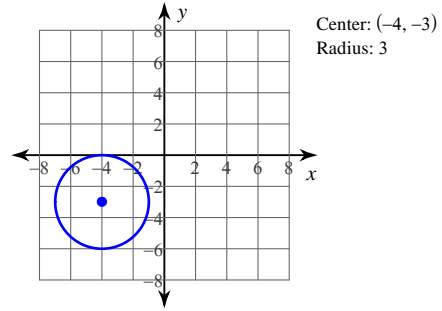


D)

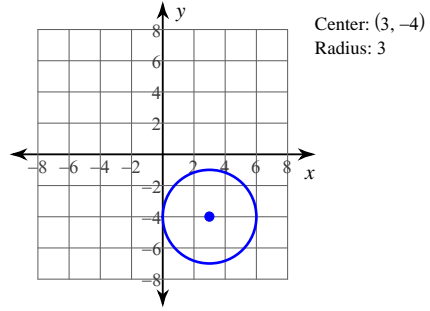


6) $(x + 4)^2 + (y + 3)^2 = 9$

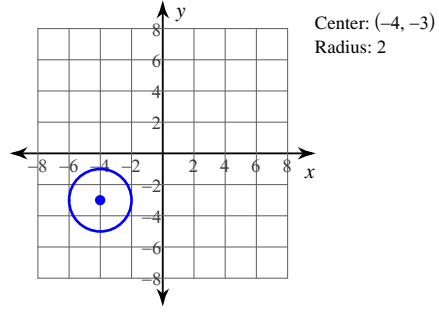
A)



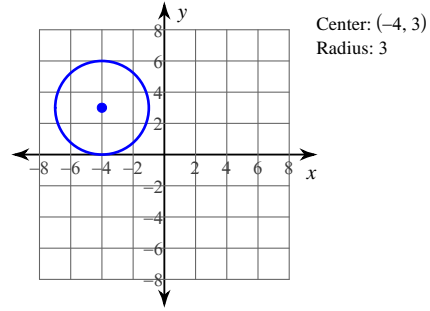
B)



C)

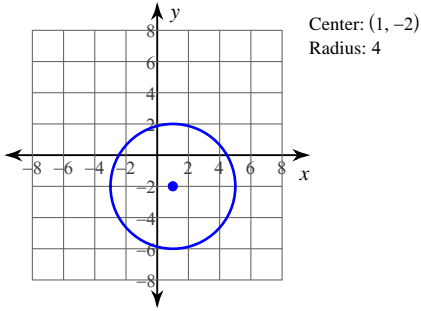


D)

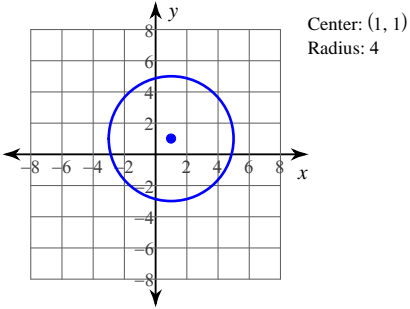


7) $(x - 1)^2 + (y + 2)^2 = 16$

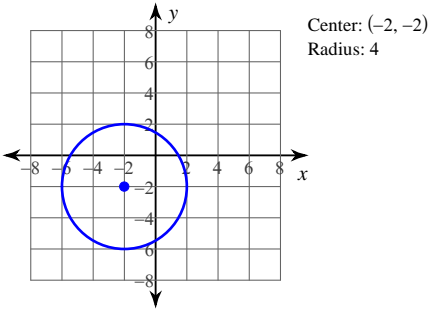
A)



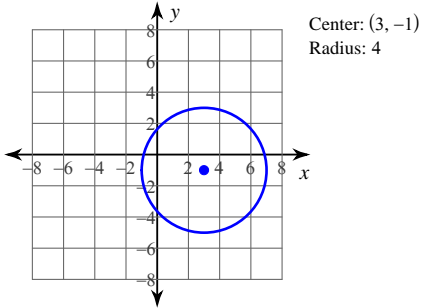
B)



C)

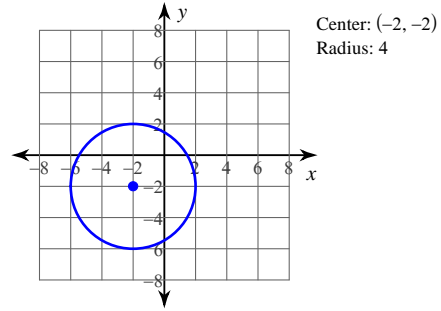


D)

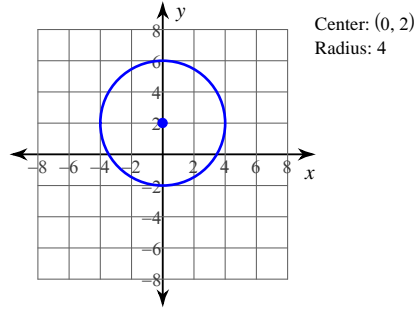


8) $(x - 2)^2 + (y + 2)^2 = 16$

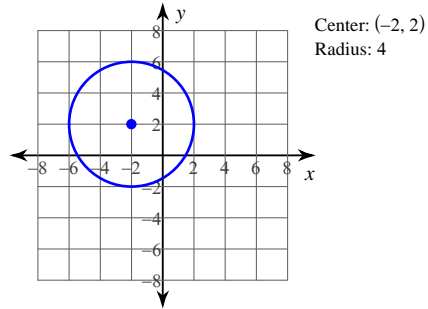
A)



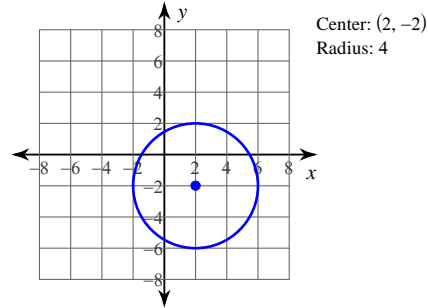
B)



C)

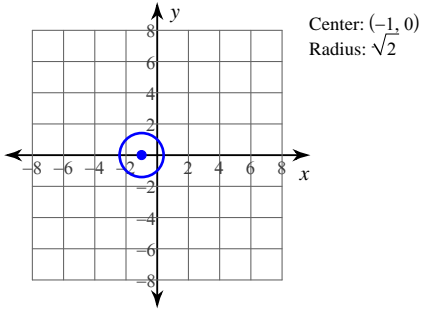


D)

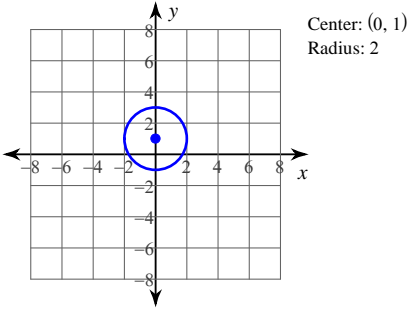


9) $(x + 1)^2 + y^2 = 2$

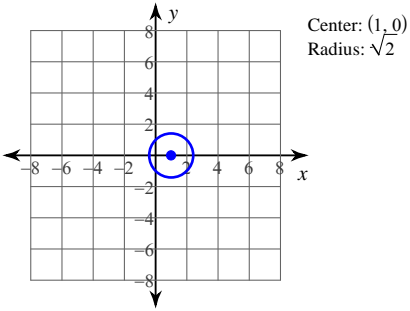
A)



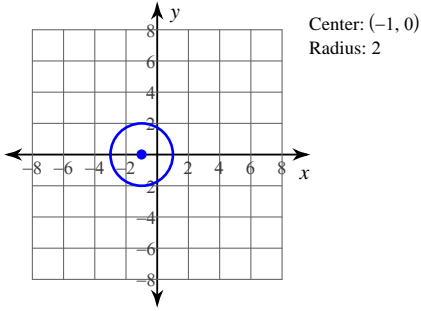
B)



C)

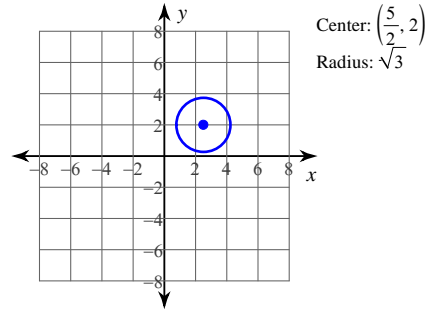


D)

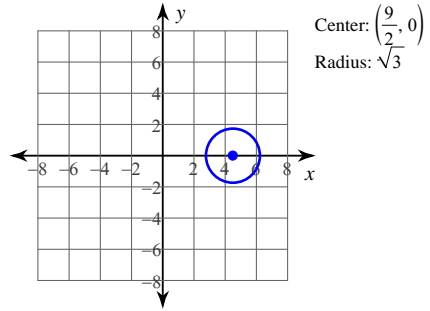


10) $\left(x - \frac{5}{2}\right)^2 + (y - 2)^2 = 3$

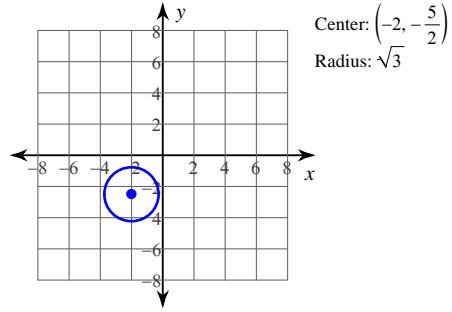
A)



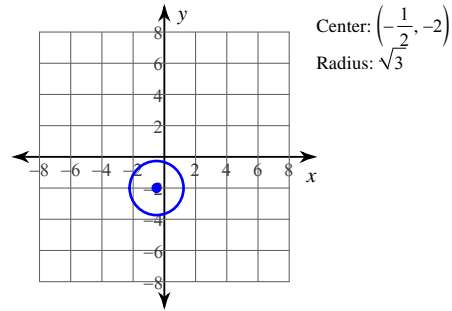
B)



C)

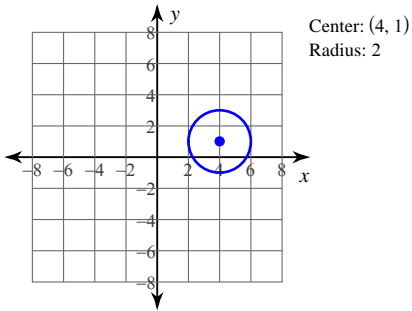


D)

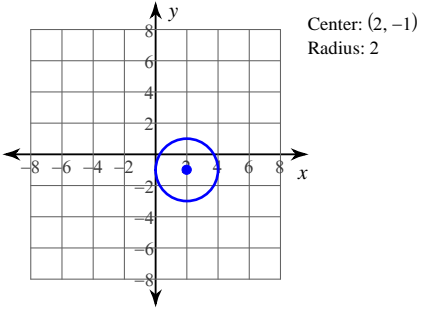


$$11) (x - 4)^2 + (y - 1)^2 = 4$$

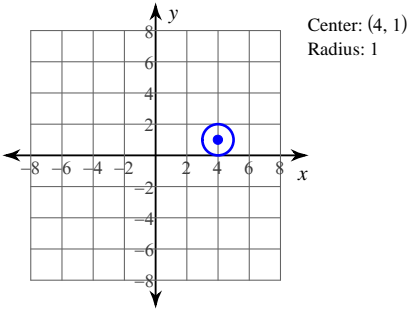
A)



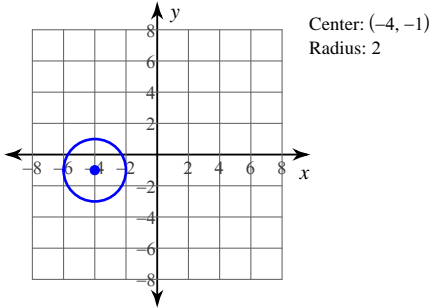
B)



C)

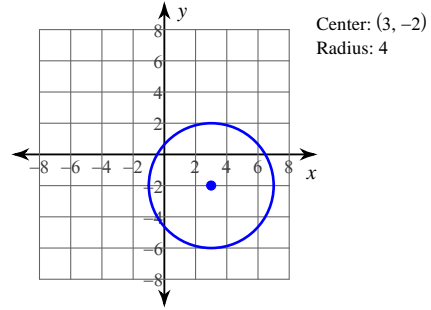


D)

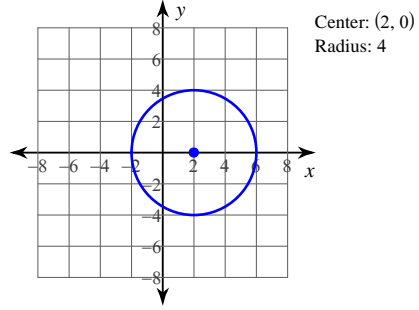


$$12) -6y - 4x - 3 = -x^2 - y^2$$

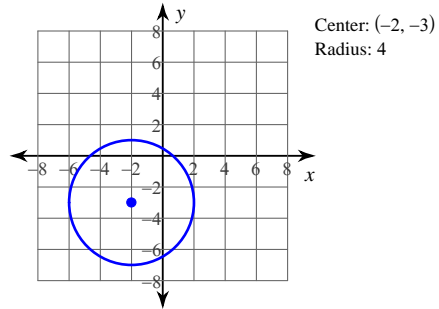
A)



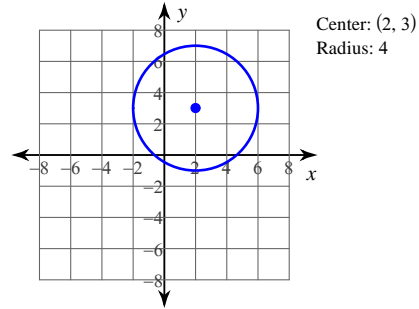
B)



C)

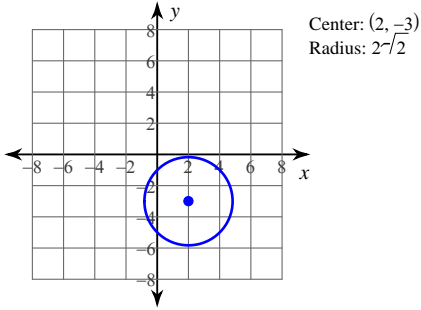


D)

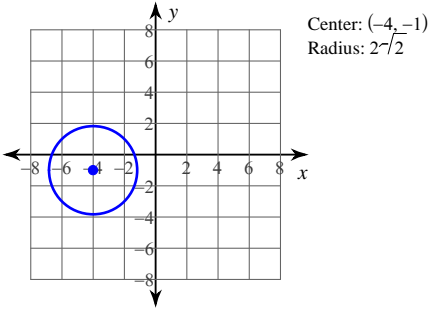


13) $y^2 + 9 = -x^2 - 2x + 8y$

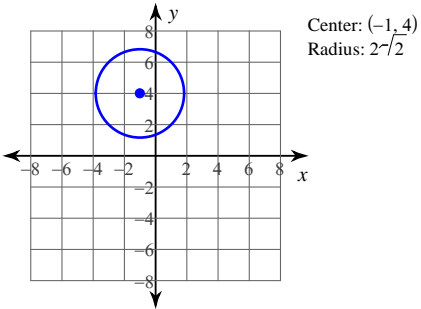
A)



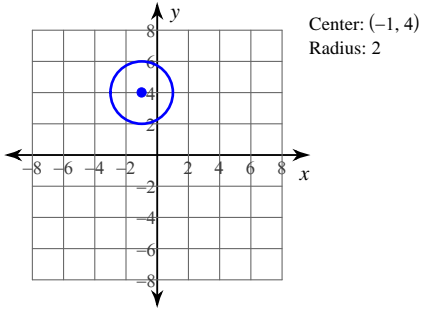
B)



C)

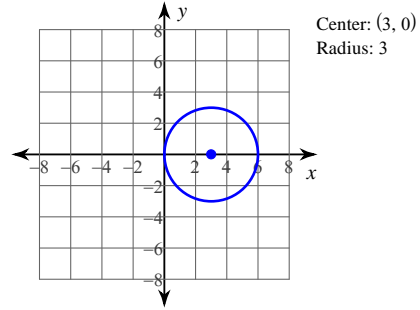


D)

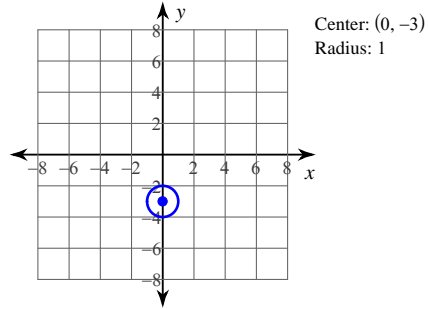


14) $-6y + 8 = -x^2 - y^2$

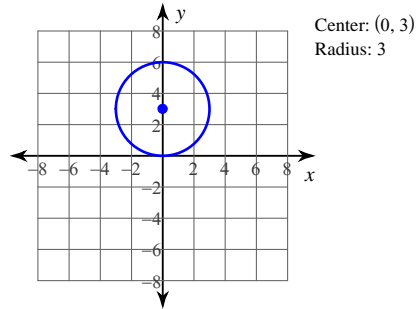
A)



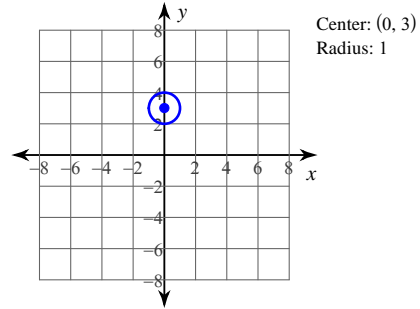
B)



C)

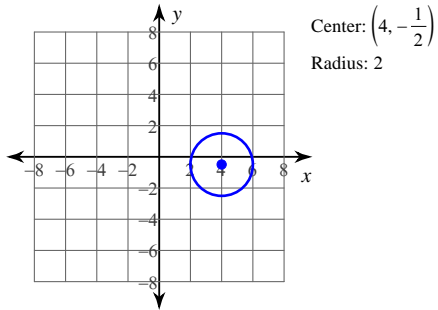


D)

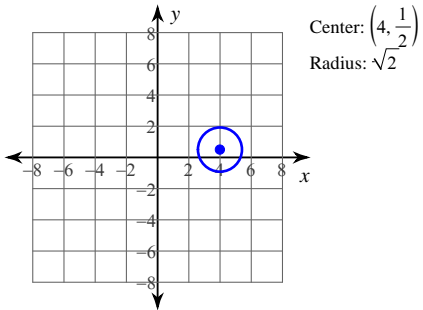


15) $4y^2 + 4x^2 + 4y = 32x - 57$

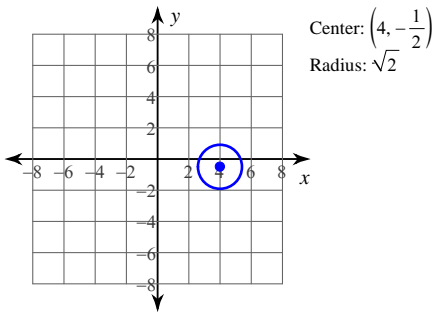
A)



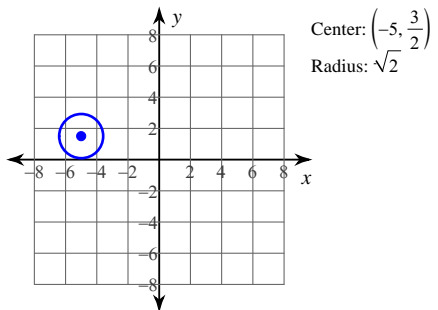
B)



C)

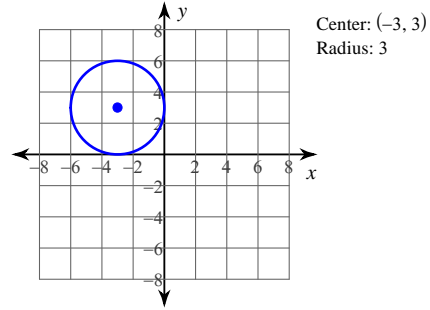


D)

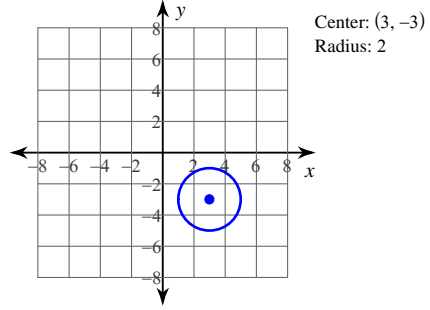


16) $y^2 + 6y = -9 - x^2 + 6x$

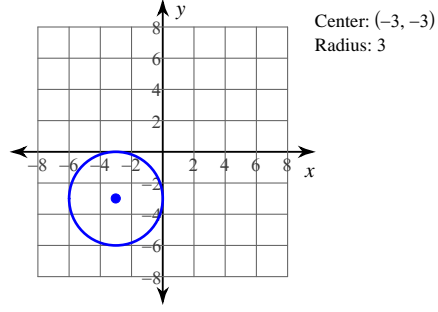
A)



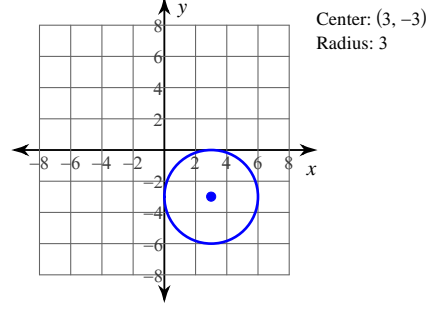
B)



C)

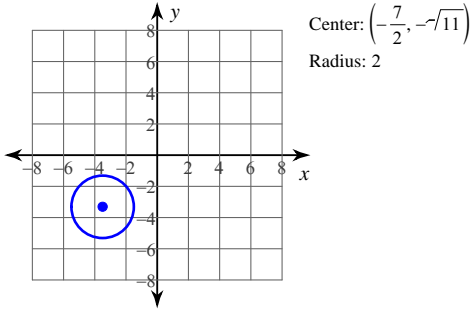


D)

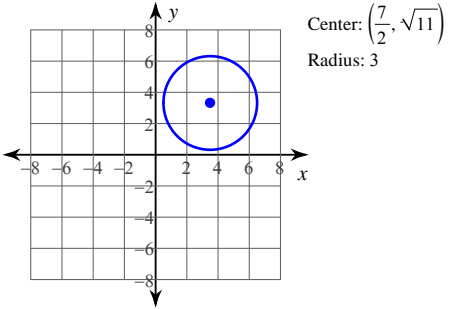


$$17) -28x + 4x^2 - 8y - \sqrt{11} = -4y^2 - 57$$

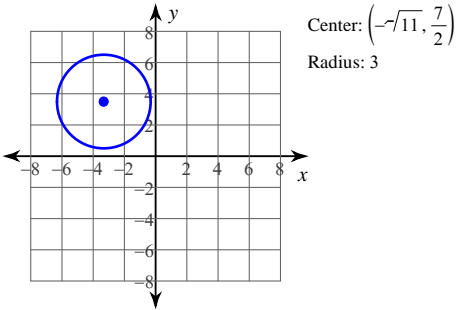
A)



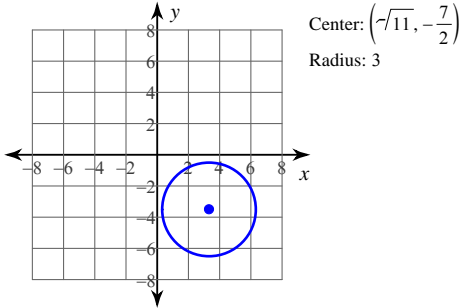
B)



C)

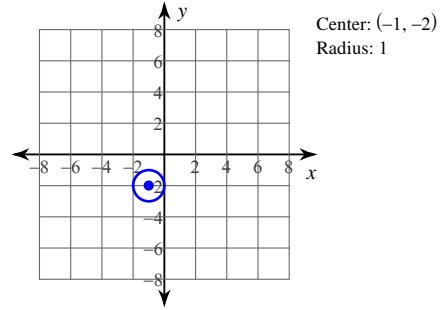


D)

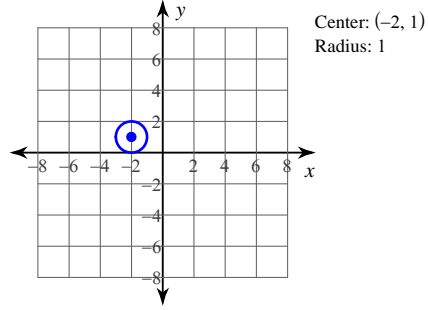


$$18) 2x + 4 + 4y = -y^2 - x^2$$

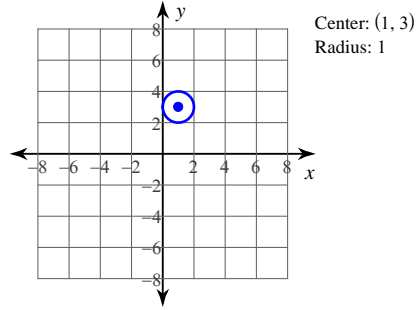
A)



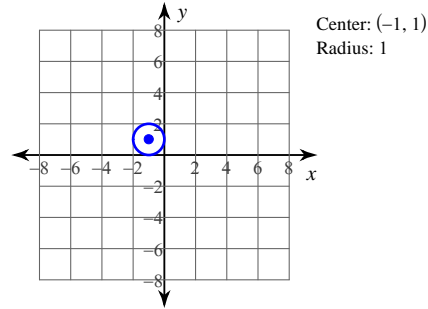
B)



C)

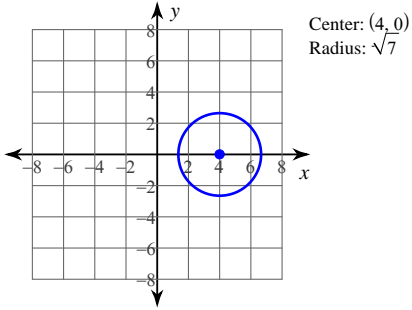


D)

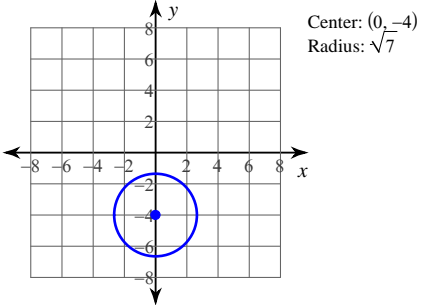


19) $9 - 8x + y^2 = -x^2$

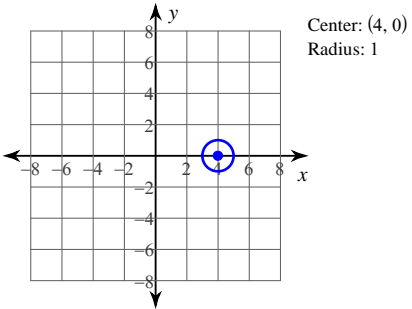
A)



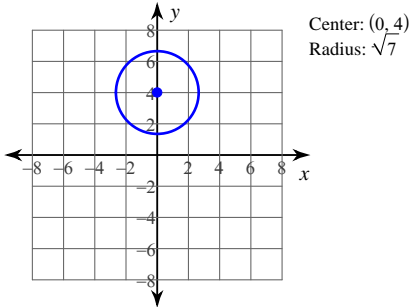
B)



C)

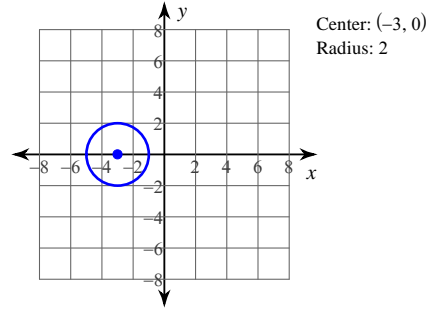


D)

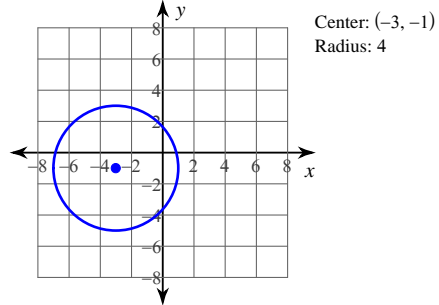


20) $x^2 + 6x + y^2 = -5$

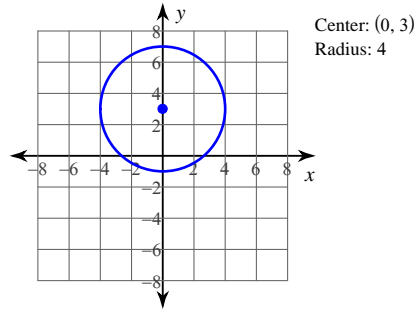
A)



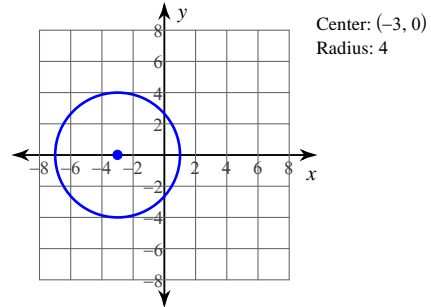
B)



C)

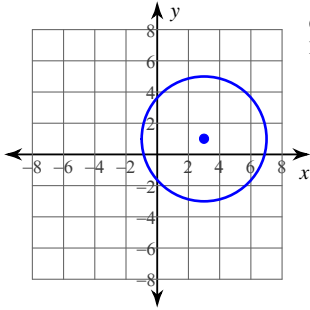


D)



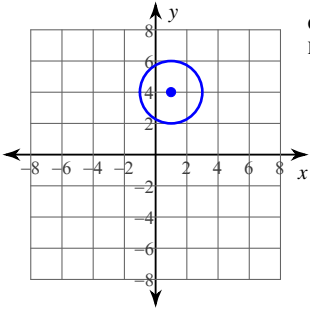
$$21) 6 + y^2 = -x^2 + 2y + 6x$$

A)



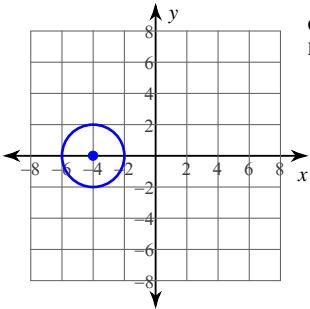
Center: (3, 1)
Radius: 4

B)



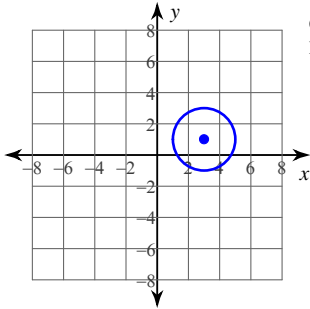
Center: (1, 4)
Radius: 2

C)



Center: (-4, 0)
Radius: 2

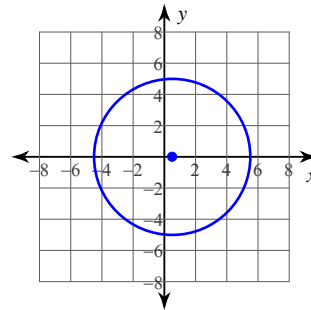
D)



Center: (3, 1)
Radius: 2

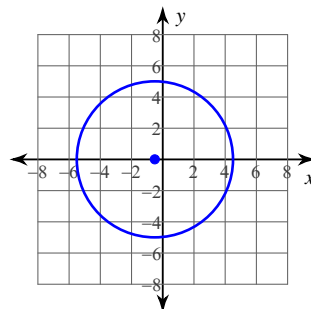
$$22) -99 + 4y^2 = 4x - 4x^2$$

A)



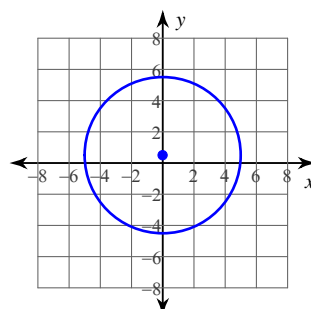
Center: $(\frac{1}{2}, 0)$
Radius: 5

B)



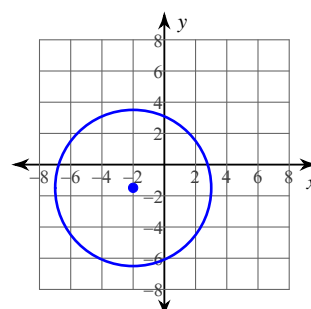
Center: $(-\frac{1}{2}, 0)$
Radius: 5

C)



Center: $(0, \frac{1}{2})$
Radius: 5

D)

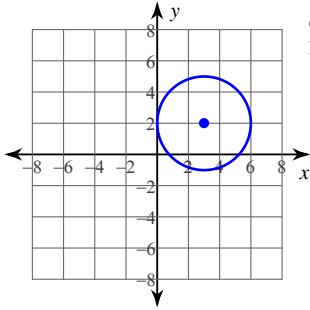


Center: $(-2, -\frac{3}{2})$
Radius: 5



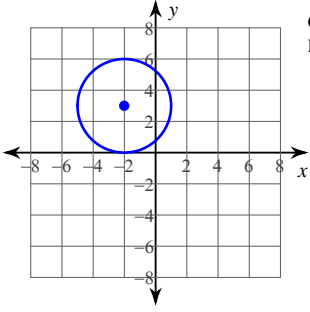
$$23) -6y = -4x - 4 - x^2 - y^2$$

A)



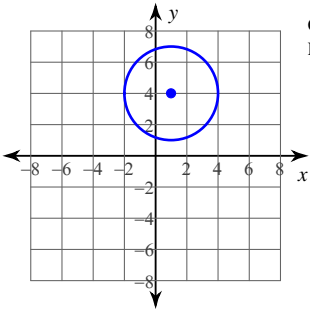
Center: (3, 2)
Radius: 3

B)



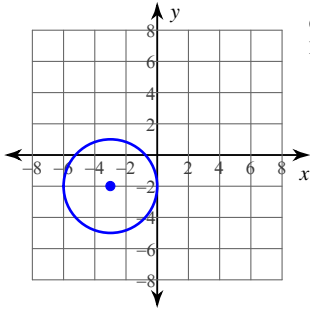
Center: (-2, 3)
Radius: 3

C)



Center: (1, 4)
Radius: 3

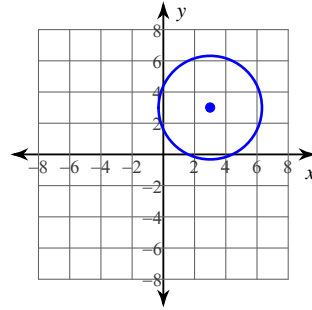
D)



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

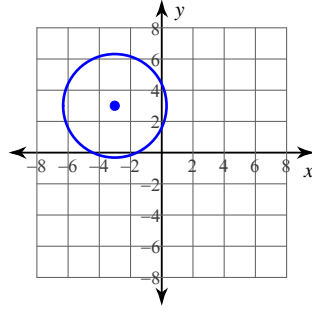
$$24) 7 + 6x = 6y - x^2 - y^2$$

A)



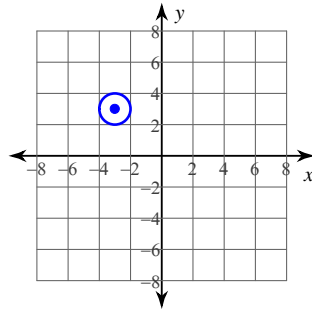
Center: (3, 3)
Radius: $\sqrt{11}$

B)



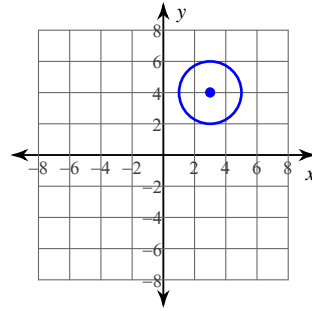
Center: (-3, 3)
Radius: $\sqrt{11}$

C)



Center: (-3, 3)
Radius: 1

D)



Center: (3, 4)
Radius: 2



Answers to Assignment (ID: 10)

1) A
5) D
9) A
13) C
17) B
21) D

2) C
6) A
10) A
14) D
18) A
22) A

3) C
7) A
11) A
15) C
19) A
23) B

4) A
8) D
12) D
16) D
20) A
24) B

