

Name \_\_\_\_\_

Date \_\_\_\_\_

### Additional Exercises 5.1

#### Form I

#### Solving Systems of Linear Equations by Graphing

Determine whether the given ordered pair is a solution of the system.

1.  $(5, 2)$   
 $x + y = 7$   
 $x - y = 3$

1. \_\_\_\_\_

2.  $(-1, -4)$   
 $x + y = -5$   
 $x - y = -3$

2. \_\_\_\_\_

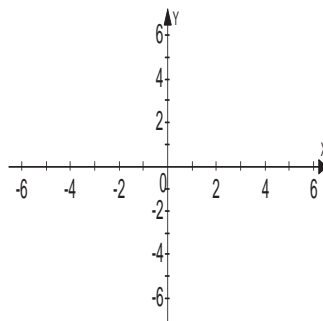
3.  $(0, 5)$   
 $x = 5$   
 $2x + y = 5$

3. \_\_\_\_\_

Solve each system by graphing. If there is no solution or an infinite number of solutions, so state. Use set notation to express solution sets.

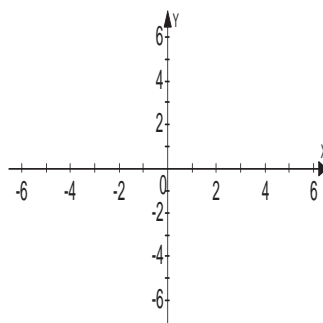
4.  $y = x + 2$   
 $y = 2x - 1$

4. \_\_\_\_\_



5.  $y = \frac{1}{2}x - 5$   
 $y = x - 6$

5. \_\_\_\_\_

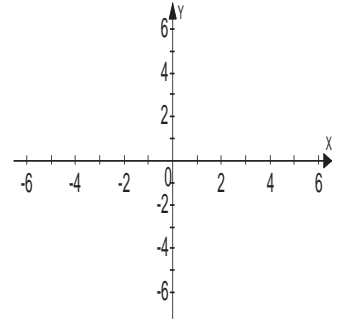


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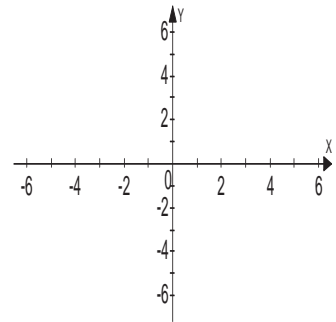
6.  $y = 3x - 2$   
 $y = -2x + 3$

6.



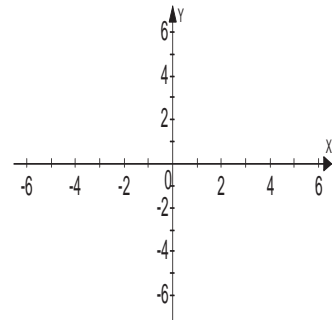
7.  $y = -\frac{2}{3}x - 3$   
 $x + y = -2$

7.



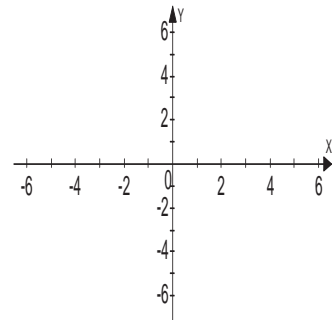
8.  $2x + y = -4$   
 $y = 4$

8.



9.  $x - 3y = -15$   
 $2x + y = 5$

9.

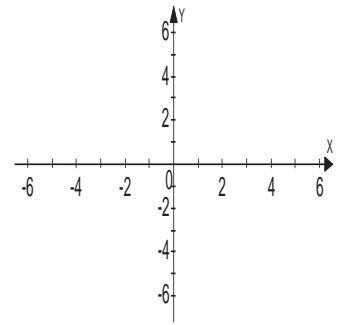


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10.  $3x + y = -2$   
 $-x - 2y = -6$

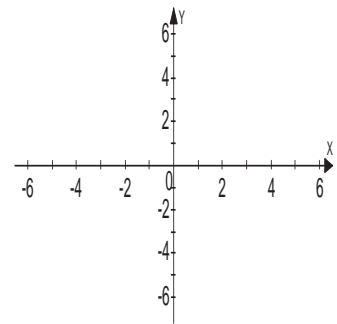
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11.  $y - 6x = 2$   
 $2y = 12x + 4$

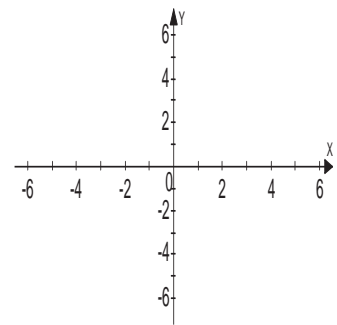
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12.  $x + 3y = 12$   
 $-3x - 9y = 18$

12.



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**Additional Exercises 5.1**  
**Form II**  
 Solving Systems of Linear Equations by Graphing

Determine whether the given ordered pair is a solution of the system.

1.  $(7, -2)$   
 $x + y = 5$   
 $2x - 3y = 8$

1. \_\_\_\_\_

2.  $(-3, -4)$   
 $x - y = 1$   
 $3x - 2y = -1$

2. \_\_\_\_\_

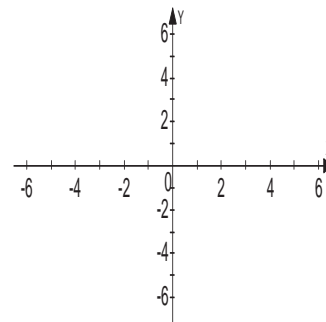
3.  $(2, 0)$   
 $x = 2$   
 $y = 0$

3. \_\_\_\_\_

Solve each system by graphing. If there is no solution or an infinite number of solutions, so state. Use set notation to express solution sets.

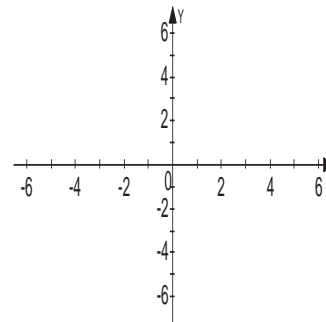
4.  $y = -\frac{2}{3}x + 4$   
 $y = x - 6$

4.



5.  $x + 2y = 2$   
 $y = -\frac{1}{2}x - 4$

5.

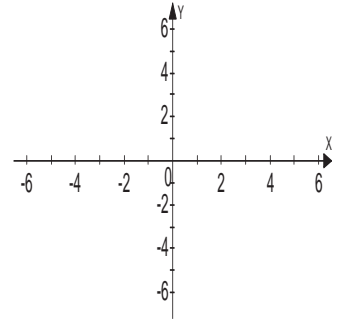


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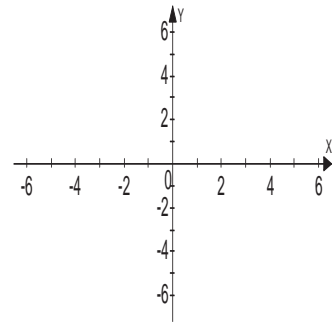
6.  $5x - 5y = 5$   
 $2x + y = 8$

6.



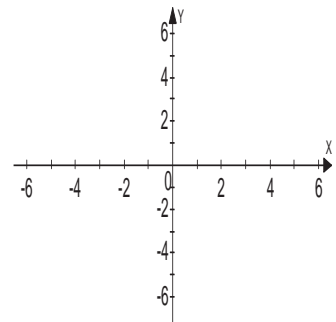
7.  $3x - 2y = 10$   
 $-2x + 2y = -6$

7.



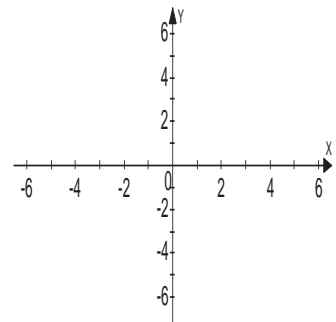
8.  $3x - 3y = 6$   
 $y = x - 2$

8.



9.  $x - y = 1$   
 $2x + 3y = 27$

9.

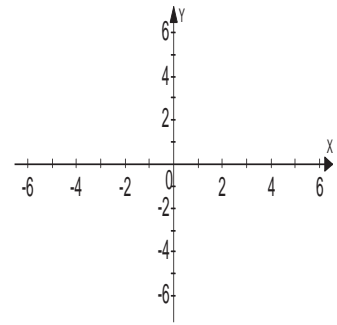


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10.  $-x + 4y = 20$   
 $x + 2y = -2$

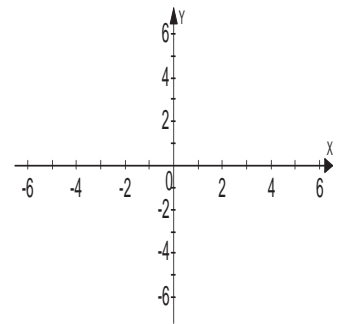
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11.  $x - y = 3$   
 $5x + 2y = -6$

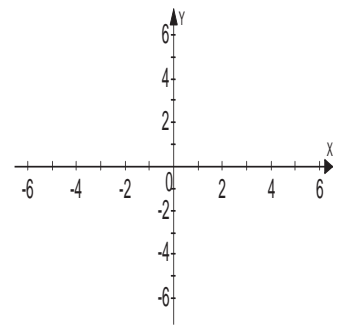
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12.  $x = 5$   
 $y = -3$

12.



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**Additional Exercises 5.1**  
**Form III**  
 Solving Systems of Linear Equations by Graphing

Determine whether the given ordered pair is a solution of the system.

1.  $(5, 2)$   
 $4x + y = 18$   
 $3x + 4y = 7$

1. \_\_\_\_\_

2.  $(-2, -5)$   
 $4x + y = -13$   
 $2x + 4y = -24$

2. \_\_\_\_\_

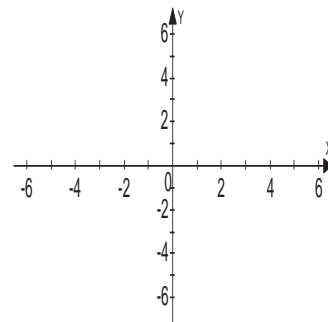
3.  $(4, 1)$   
 $x = 1$   
 $y = 4$

3. \_\_\_\_\_

Solve each system by graphing. If there is no solution or an infinite number of solutions, so state. Use set notation to express solution sets.

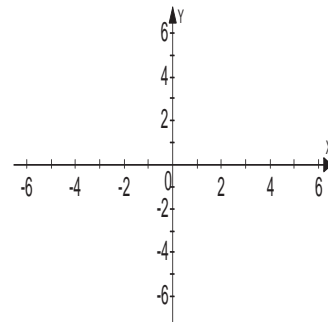
4.  $y = -\frac{1}{4}x + 6$   
 $y = x + 1$

4.



5.  $2x + y = 7$   
 $6x + 3y = 21$

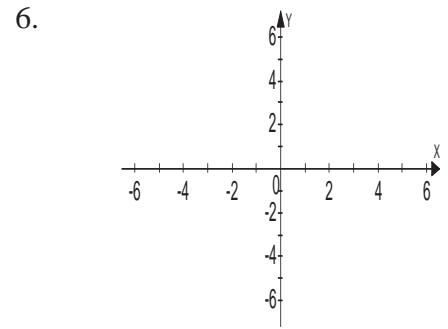
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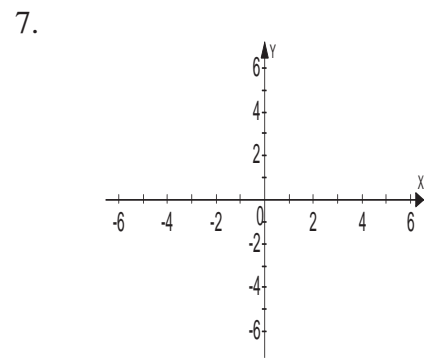
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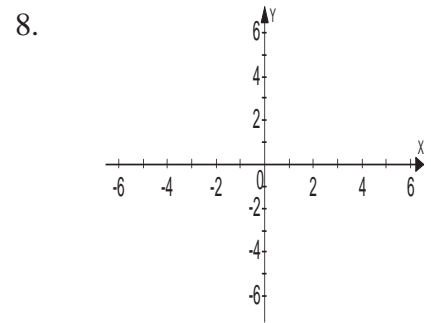
6.  $2x + y = 1$   
 $2x + y = -4$



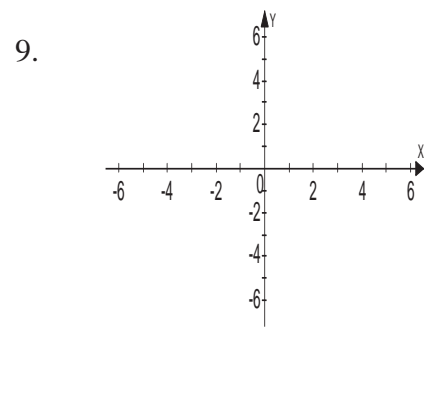
7.  $2x - y = 1$   
 $3x - 2y = 0$



8.  $6x + 12y = 12$   
 $x + y = -2$



9.  $2x + y = 5$   
 $2x - 8y = 32$



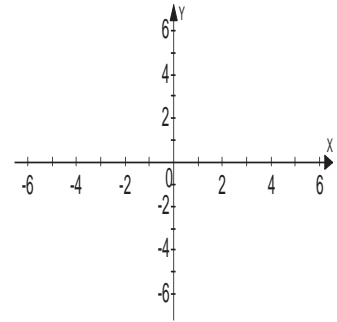


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10.  $x = -y$   
 $x - y = 6$

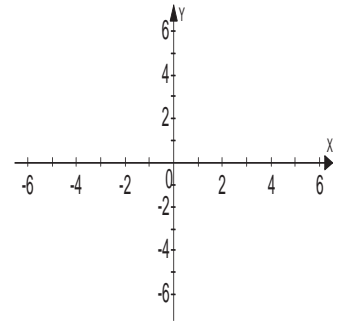
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11.  $3x = 2y + 12$   
 $2x + 3y = 21$

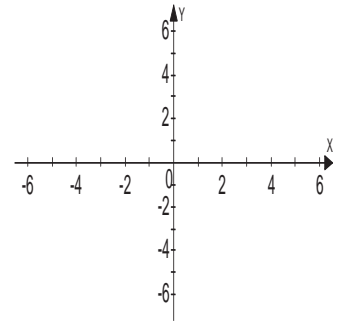
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12.  $x - 5y = 5$   
 $x + 5y = -15$

12.



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