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. _____

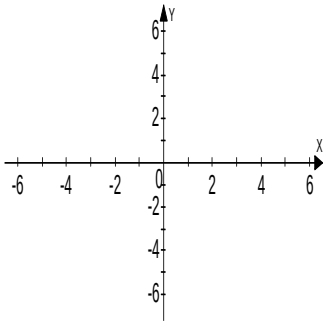
3. (0, 5)
$x = 5$
$2x + y = 5$

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

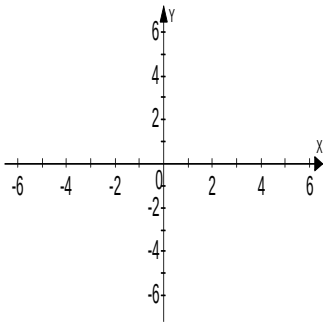
4.



_____

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

5.

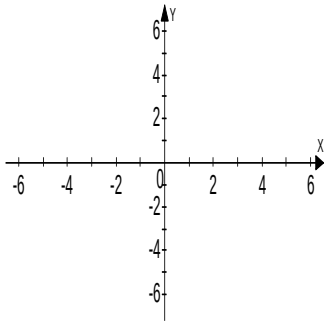


_____

Name _____ Date _____

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

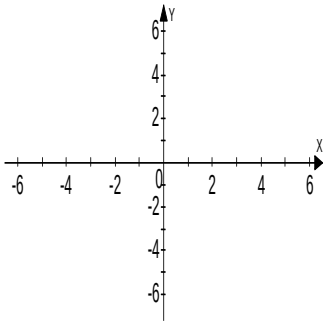
6.



_____

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

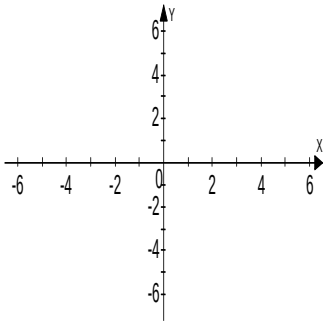
7.



_____

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

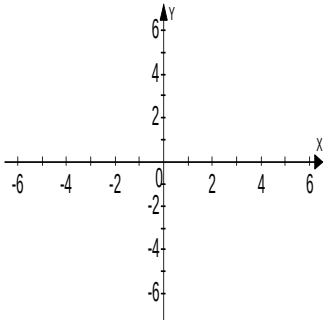
8.



_____

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

9.

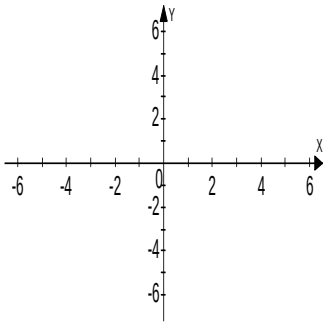


_____

Name _____ Date _____

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

10.

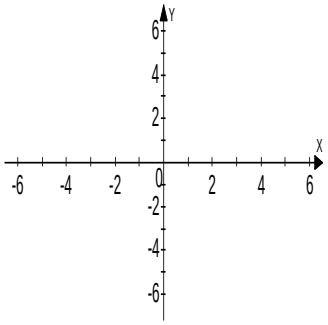


_____

11. $y - 6x = 2$

$2y = 12x + 4$

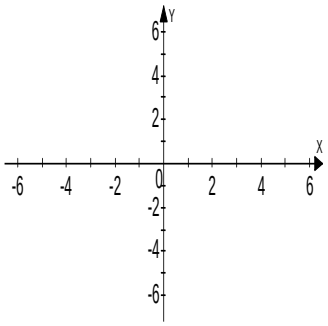
11.



_____

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

12.



_____

Name _____ Date _____

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.

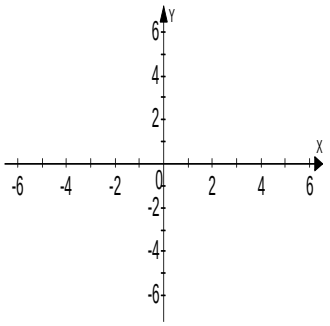
1. $(7, -2)$
$x + y = 5$
$2x - 3y = 8$
1. _____

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

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

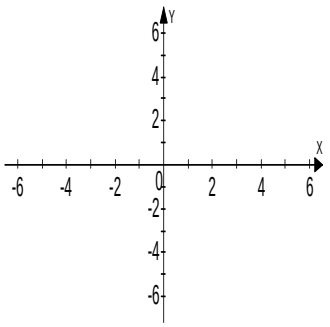
Solve each system by graphing. If there is no solution or an infinite number of solutions, so state. Use set notation to express solution sets.

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



_____

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

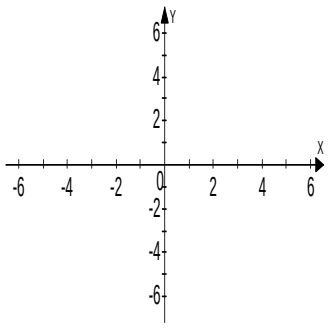


_____

Name _____ Date _____

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

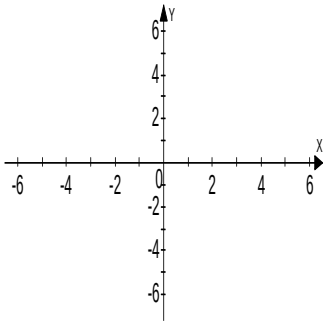
6.



_____

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

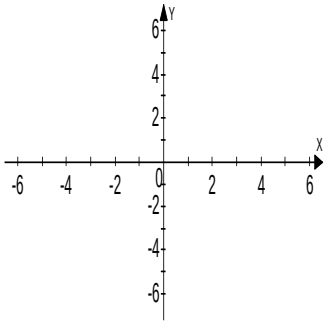
7.



_____

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

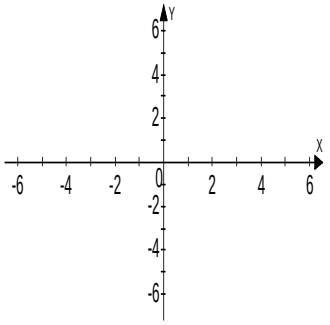
8.



_____

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

9.

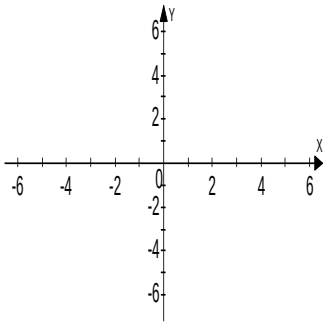


_____

Name _____ Date _____

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

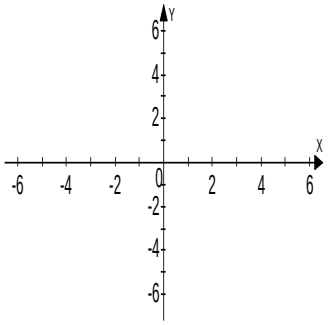
10.



_____

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

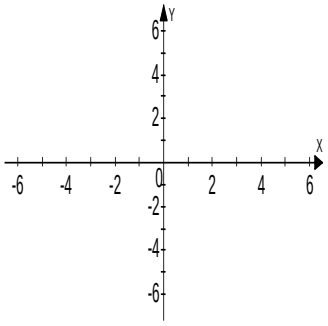
11.



_____

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

12.



_____

Name _____ Date _____

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.

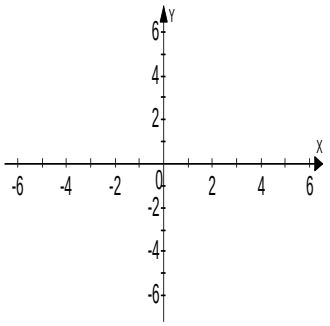
1. (5, 2)
$4x + y = 18$
$3x + 4y = 7$
1. _____

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

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

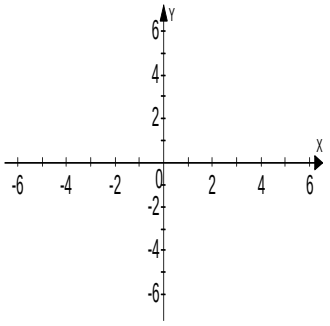
Solve each system by graphing. If there is no solution or an infinite number of solutions, so state. Use set notation to express solution sets.

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



_____

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

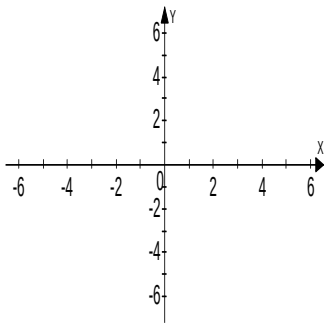


_____

Name _____ Date _____

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

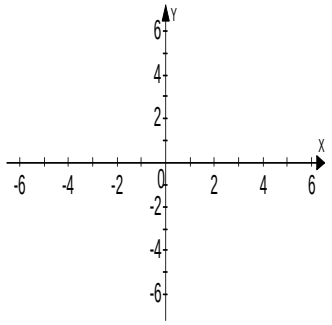
6.



_____

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

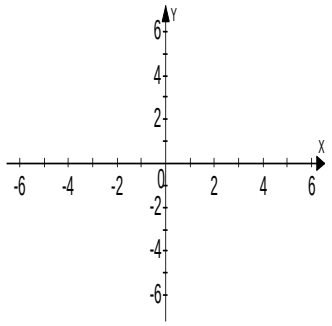
7.



_____

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

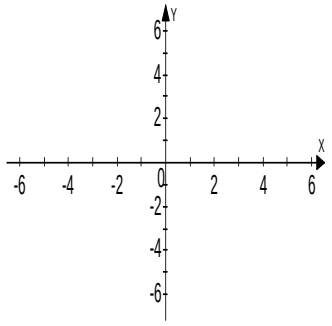
8.



_____

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

9.

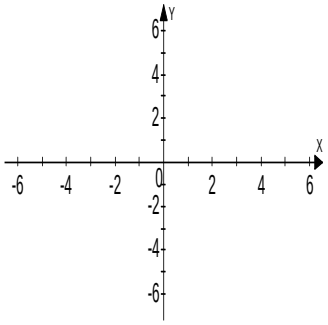


_____

Name _____ Date _____

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

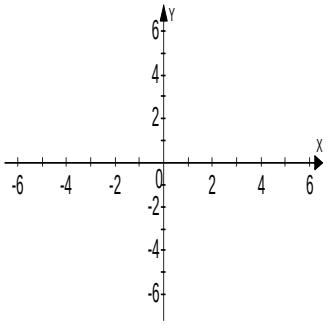
10.



_____

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

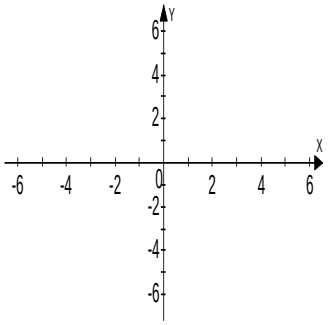
11.



_____

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

12.



_____