Lesson 23T ~ Solving Systems by Graphing

Name_____ Period_____ Date_____

Decide whether the given ordered pair is a solution to the system of equations.

1. $y = x - 6 \rightarrow \square \stackrel{?}{=} \square - 6$

   $x + y = 8 \rightarrow \square + \square \stackrel{?}{=} 8$

   (7, 1)

   Substitute the values for x and y.

   Solution? YES NO

2. $3x + 5y = 14 \rightarrow$

   $y = 2x - 4 \rightarrow$

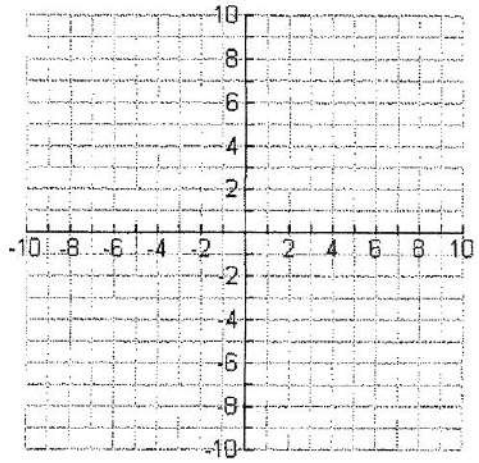
   (3, 1)

   Solution? YES NO

Solve each system of equations by graphing. If the system does not have exactly one solution, state whether it has no solution or infinitely many solutions.

3. $y = 2x - 3$

   $y = \frac{1}{2}x + 3$



SOLUTION: (,)

Check your answer:

Equation #1

___ = 2· ___ − 3

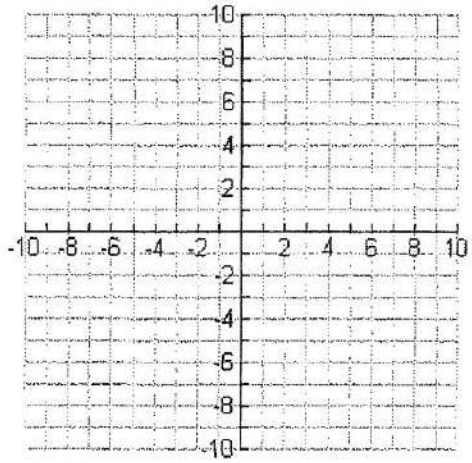
Equation #2

___ = $\frac{1}{2}$ · ___ + 3

Check your answer by substituting the values for x and y into the original equations.

4. $y = 3x + 5$

   $y = x + 1$

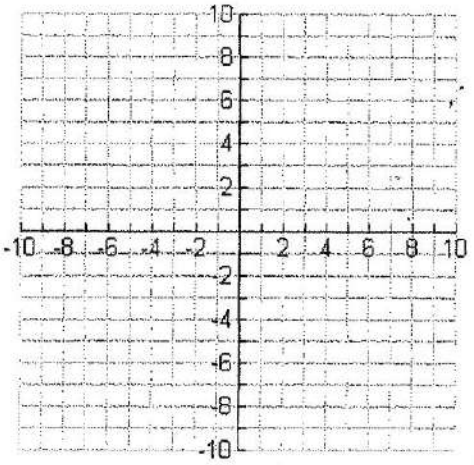


SOLUTION: (,)

Check your answer:

Solve each system of equations by graphing. If the system does not have exactly one solution, state whether it has no solution or infinitely many solutions.

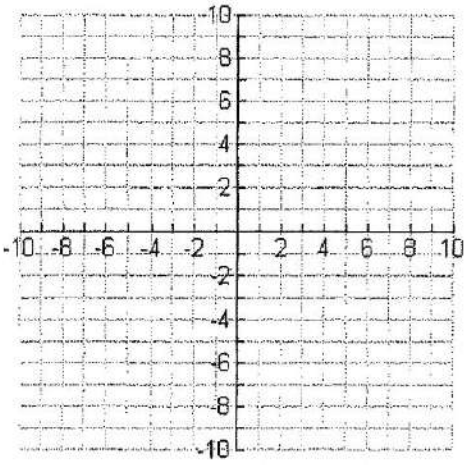
5. $y = 3x + 1$
   $y = x - 3$



SOLUTION: _____

Check your answer:

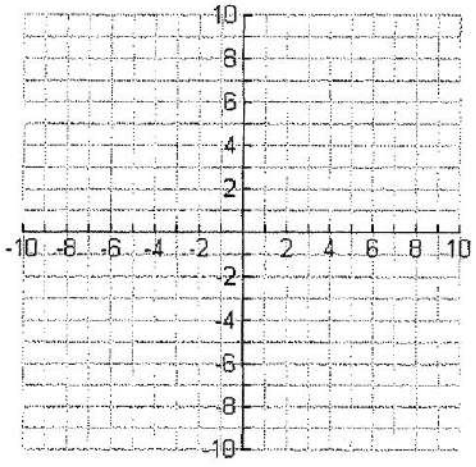
6. $y = \frac{1}{2}x - 5$
   $y = -\frac{1}{4}x + 1$



SOLUTION: _____

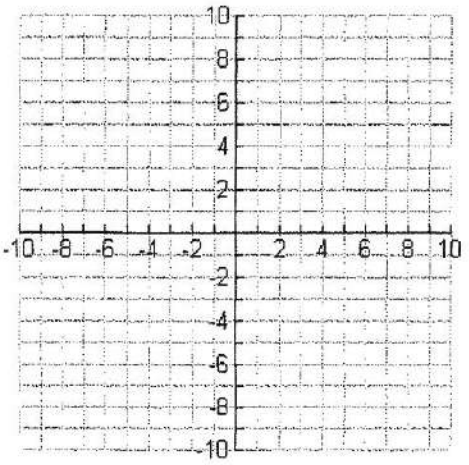
Check your answer:

7. $y = 2x + 3$
   $y = 3 + 2x$



SOLUTION: _____

8. $y = \frac{1}{3}x + 4$
   $y = \frac{1}{3}x - 2$



SOLUTION: _____

Lesson 24T ~ Solving Systems Using Tables

Name_____ Period_____ Date_____

Solve each system of equations using the given input-output tables.

1. $y = 2x - 3$

x	y
0	
1	
2	
3	
4	

$y = -2x + 5$

x	y
0	
1	
2	
3	
4	

SOLUTION: (,)

Check your answer:

2. $y = 3x + 4$

x	y
−4	
−3	
−2	
−1	
0	

$y = 2x + 3$

x	y
−4	
−3	
−2	
−1	
0	

SOLUTION: (,)

Check your answer:

Check your answer by substituting the values for x and y into the original equations.

3. $y = x + 2$

x	y

$y = 3x - 4$

x	y

SOLUTION: (,)

Check your answer:

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

x	y

$y = 2x - 1$

x	y

SOLUTION: (,)

Check your answer:

5. $y = 4x + 9$

x	y
0	
1	
2	
3	
4	
5	

$y = 2x + 3$

x	y
0	
1	
2	
3	
4	
5	

a. Fill in the tables for the values given.

b. Do you see a solution? _____

Are the numbers getting closer together or further apart? _____

If your numbers are getting further apart, you will need to use values in the opposite direction. Fill in the new tables using negative numbers.

x	y
−5	
−4	
−3	
−2	
−1	
0	

x	y
−5	
−4	
−3	
−2	
−1	
0	

SOLUTION: _____

c. Check your answer: