

Student: _____

Instructor: Ray Brown

Assignment: ch11_09_Rev ch11

Date: _____

Course: Sp18 Math055 41103 G43

1. Click the link below to watch a video reviewing concepts in this chapter. You are encouraged to watch the video and work problems with the instructor to help ensure your understanding of the material.

Chapter 11 Review¹

- True - I understand the concept.
 False - I am not understanding the concept and intend to seek assistance.

1: <http://www.screencast.com/t/hgbyEYKpQx0>

Answer: True - I understand the concept.

2. Determine which ordered pair is a solution to the system of equations.

(2,0), (-1, -3)

$$\begin{cases} -5x + 5y = -10 \\ 2x + 8y = 4 \end{cases}$$

Is the ordered pair (2,0) a solution?

- No
 Yes

Is the ordered pair (-1, -3) a solution?

- Yes
 No

Answers Yes

No

3. Determine whether each ordered pair is a solution of the system of linear equations.

$$\begin{cases} -2 = x - 4y \\ 2x - y = 4 \end{cases}$$

a. $(-2, 0)$

b. $\left(\frac{1}{2}, \frac{5}{8}\right)$

a. Is $(-2, 0)$ a solution?

- Yes
 No

b. Is $\left(\frac{1}{2}, \frac{5}{8}\right)$ a solution?

- Yes
 No

Answers No

No

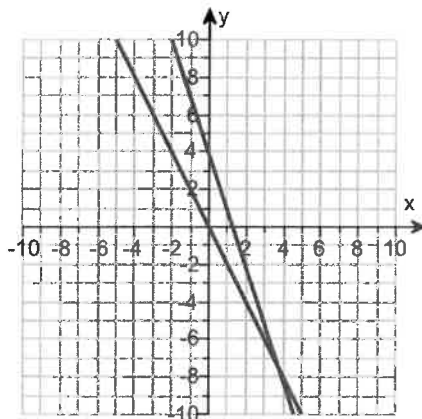
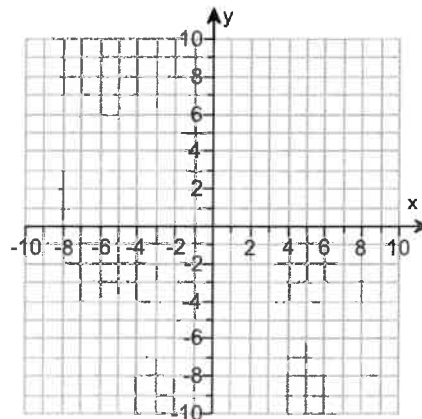
4. Solve the system of linear equations by graphing.

$$\begin{cases} y = -2x \\ 3x + y = 4 \end{cases}$$

Use the graphing tool to graph the system.

What is the solution of the system of equations? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. _____ (Type an ordered pair.)
 B. There are infinitely many solutions.
 C. There is no solution.



Answers

A. (4, -8) (Type an ordered pair.)

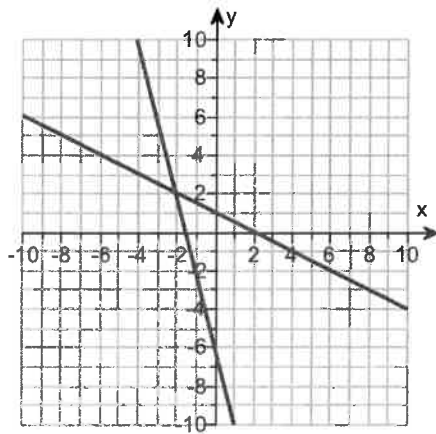
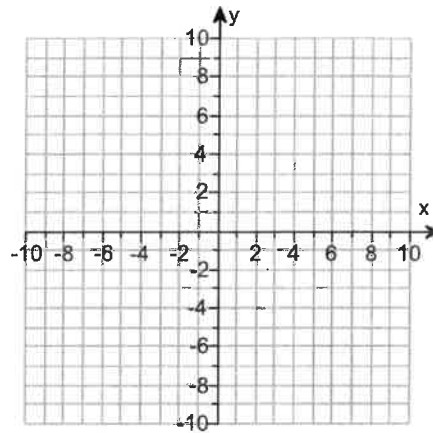
5. Solve the system of equations by graphing.

$$\begin{cases} 4x + y = -6 \\ x + 2y = 2 \end{cases}$$

Use the graphing tool to graph the lines.

What is the solution of the system of equations? Select the correct choice below and fill in any answer boxes in your choice.

- A. The solution is _____. (Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.



Answers

A. The solution is (-2,2) . (Type an ordered pair.)

6. Use the method of substitution to solve the system of linear equations.

$$\begin{aligned} 5x + y &= -11 \\ y &= x + 1 \end{aligned}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is _____. (Simplify your answer. Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.

Answer: A. The solution is (-2, -1) . (Simplify your answer. Type an ordered pair.)

7. Solve the system of equations by your choice of method, substitution or addition.

$$\begin{cases} 3x + 4y = 9 \\ 6x + 8y = 0 \end{cases}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is _____.
(Simplify your answer. Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.

Answer: C. There is no solution.

8. Solve the system of equations by your choice of method, substitution or addition.

$$\begin{cases} -9(x - 3) = 8y \\ 3x - 3y = -8 \end{cases}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is _____. (Simplify your answer. Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.

Answer: A. The solution is $\left(\frac{1}{3}, 3\right)$. (Simplify your answer. Type an ordered pair.)

9. Use the elimination method to solve the system of equations.

$$\begin{aligned} x + y &= -4 \\ x - y &= 6 \end{aligned}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is _____. (Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.

Answer: A. The solution is $(1, -5)$. (Type an ordered pair.)

10. Use the elimination method to solve the system of equations.

$$\begin{aligned} -x + y &= 4 \\ x + y &= 12 \end{aligned}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is _____.
(Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.

Answer: A. The solution is (4,8). (Type an ordered pair.)

11. Use the elimination method to solve the system of equations.

$$\begin{cases} 7x - 4y = -11 \\ 6x + 5y = -1 \end{cases}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is _____. (Type an ordered pair.)
- B. There are infinitely many solutions.
- C. There is no solution.

Answer: A. The solution is (-1,1). (Type an ordered pair.)

12. Use the given conditions to write a system of equations. Solve the system and find the numbers.

The sum of two numbers is 12. If one number is subtracted from the other, the result is -4 . Find the numbers.

The two numbers are _____.
(Use a comma to separate answers.)

Answer: 4,8

13. Two angles are supplementary. One is 56° more than three times the other. Find the measures of the angles.

What is the measure of the smaller angle?

_____°

What is the measure of the other angle?

_____°

Answers 31

- *14. Kevin and Randy Muise have a jar containing 64 coins, all of which are either quarters or nickels. The total value of the coins in the jar is \$10.40. How many of each type of coin do they have?

The jar contains _____ quarters.

The jar contains _____ nickels.

Answers 36

28

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15. Determine whether the test point $(0, -1)$ is a solution to the linear inequality $y \geq 1$.

Select the correct choice below and fill in the answer box to complete your choice.

- A. The test point $(0, -1)$ is a solution to the inequality because substituting _____ for y makes the inequality a true statement.
- B. The test point $(0, -1)$ is not a solution to the inequality because substituting _____ for y makes the inequality a false statement.

Answer: B.

The test point $(0, -1)$ is not a solution to the inequality because substituting - 1 for y makes the inequality a false statement.

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16. Determine whether the test point $(2,0)$ is a solution to the linear inequality $y < x - 1$.

Select the correct choice below and fill in the answer box to complete your choice.

- A. The test point $(2,0)$ is a solution to the inequality because substituting _____ for x and _____ for y make the inequality a true statement.
- B. The test point $(2,0)$ is not a solution to the inequality because substituting _____ for x and _____ for y make the inequality a false statement.

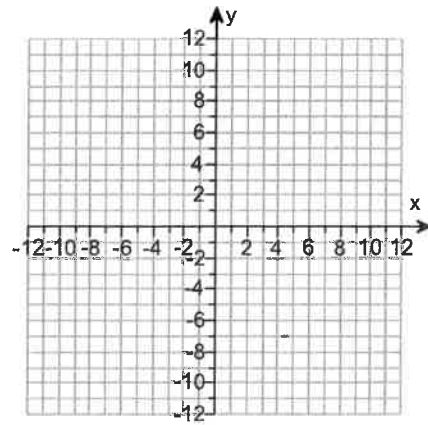
Answer: A.

The test point $(2,0)$ is a solution to the inequality because substituting 2 for x and 0 for y make the inequality a true statement.

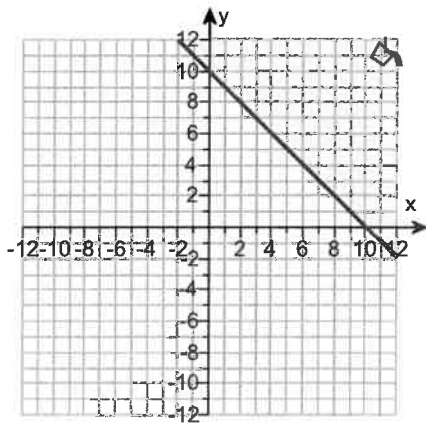
7. Shade the solution set to the inequality.

$$x + y \geq 10$$

Use the graphing tool to graph the inequality.



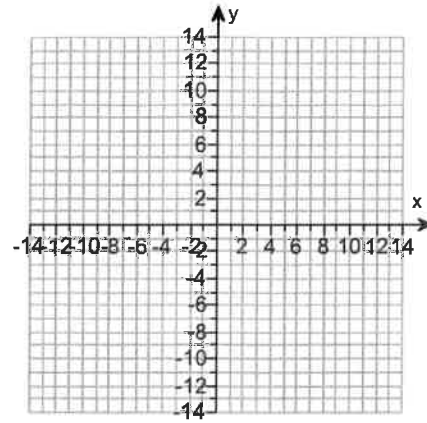
Answer:



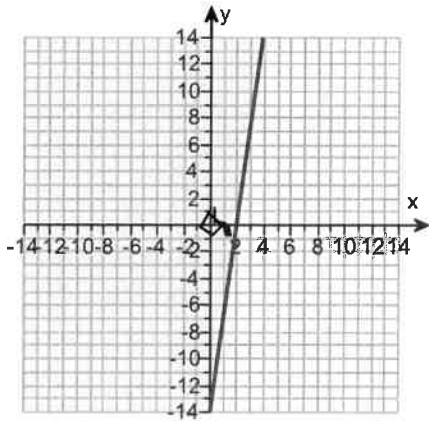
18. Graph the following inequality.

$$7x - y \leq 14$$

Use the graphing tool to graph the inequality.



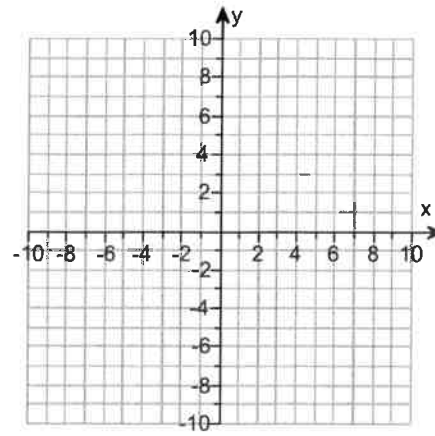
Answer:



9. Graph the inequality.

$$x < 7$$

Use the graphing tool to graph the inequality.



Answer:

