_____ Date:_____

Period:

Unit CA

Unit 3 Corrective Assignment – Systems of Equations

Circle all the ordered pairs (x, y) that are solutions to the given equation OR inequality. BE CAREFUL!

1. x + 8y = 15

Name:

$$2. \quad 9x - y = -2$$

(-10,4) (-9,3)

$$(-1,2)$$
 $(6,1)$

$$(0,2)$$
 $(1,11)$

(2,20) (3,29) (-3,-25)

3.
$$x + y > 0$$

 $4. \ 2x - 5y \le 3$

3.
$$x + y > 0$$

$$(0,0)$$
 $(-3,1)$

$$(4, -3)$$

$$(-3,1)$$
 $(4,-3)$ $(-1,-4)$ $(1,1)$

(4,1) (2,0) (1,-1) (-1,-2)

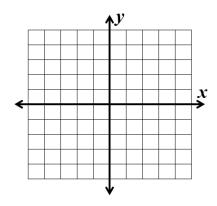
5. Mr. Kelly has 50 coins, all of which are either nickels or dimes. They have a value of \$3.85. Set up a system of equations to find out how many of each coin Mr. Kelly has.

of dimes: _____

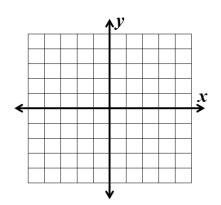
of nickels:

Graph each of the following. If it is a system of equations, include the intersection point with your answer.

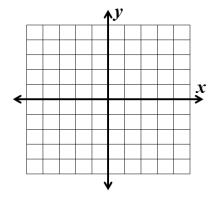
6. $y > -\frac{1}{2}x + 4$



 $7. \quad \begin{array}{c} x + 2y < -2 \\ 2x + y \ge 2 \end{array}$

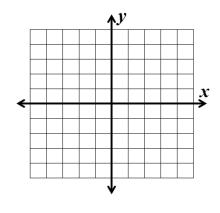


2x + y = 3 $8. \ \ 12x + 6y = 12$

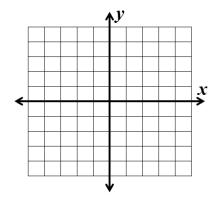


 $y = \frac{1}{4}\overline{x - 1}$

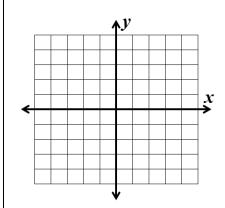
Answer:



 $10. \frac{2x + 4y = 4}{-x - 2y = -2}$



Answer:



Answer:

Solve each system algebraically with substitution or elimination. You must show your work.

12.
$$4x + 2y = 12$$
$$x - 3y = -4$$

$$4x = 2y \\
-2x + y = -3$$

$$3x - 6y = -9 \\
 x - 2y = -3$$

Write or circle your answer below.

Write or circle your answer below.

Write or circle your answer below.

$$x =$$
 Inf. Solutions or

$$x =$$
 ____ Inf. Solutions or $v =$ No Solution

No Solution
$$y =$$

$$x + 3y = -18$$

$$5x + 2y = -12$$

Write or circle your answer below.

Write or circle your answer below.

$$y = \underline{\qquad \qquad \qquad }$$

$$2y = 4 + 6x$$

$$2x = y - 3$$

$$y = _{-6x + 3y = -6}$$
18.
$$4x + 5y = 18$$

Write or circle your answer below.

Write or circle your answer below.

19. At Kit's Kitchen, the Big Deal costs \$3.50 for two hamburgers and one order of fries. The Family Pack costs \$12 for six hamburgers and 6 orders of fries. Set up a system of equations and solve it to find out the cost of one hamburger.

Price of Hamburger:

·____

Solve each system by graphing with a graphing calculator. Round to 2 decimal places.

$$y = \frac{8}{3}x + 6$$
20.
$$y = -\frac{2}{5}x - 4$$

$$\begin{array}{r}
 4x - 3y = -27 \\
 x + 9y = -18
 \end{array}$$

Answers to Unit 3 Corrective Assignment

