

b. (2,0)

c.
$$(-3, 5)$$

d. (5, -3)

2) What does it mean if (3, 2) is a solution

 $\begin{cases} y = x - 1 \\ y = -x + 5 \end{cases}$?

- **a.** (3, 2) makes at least one of the equations true.
- **b.** (3, 2) makes both equations true.
- **c.** (3, 2) makes neither equation true.
- **d.** (3, 2) makes exactly one of the equations true.
- 3) Parallel lines have how many solutions?
 - **a.** Infinitely Many solutions
 - **b.** One Solution
 - c. No Solutions

4) Solve $\begin{cases} y = x + 3 \\ 2x + y = -6 \end{cases}$ by substitution.

- **a.** (−9, −6) **b.** (−3, 0)
- **c.** (−1, 2)
- **d.** (−3, 6)

 $\begin{cases} 2x - 3y = -14 \\ 3x + 3y = 9 \end{cases}$ by eliminating

5) Solve (3x+3y=9) by elimination.

a. (1,2)
b. (-1,4)
c. (1,-4)
d. (-1,2)

6) Solve
$$\begin{cases} x = y + 3 \\ y = -2x \end{cases}$$
 by graphing.



Solution:

7) Solve by substitution:
$$\begin{cases} 4x + 2y = -2 \\ y = 6x - 5 \end{cases}$$
.

Solution: _____

8) Solve by elimination:
$$\begin{cases} 2x - 2y = 14\\ x + 4y = -13 \end{cases}$$

Solution: _____

Name

9) Is (-5, -6) a solution to this system:
$$\begin{cases} x - 2y = 7 \\ y - x = -1 \end{cases}$$

The graph below compares two comic book collections. Use the graph to answer questions 10-11.



10) In how many months will they have the same number of comic books?

- a. 40 months
- b. 35 months
- c. 7 months
- d. 8 months

11) Which system of equations is represented by the graph?

a.
$$\begin{cases} y = 5x + 5\\ y = -15x + 145 \end{cases}$$

b.
$$\begin{cases} y = -5x + 5\\ y = 15x + 145 \end{cases}$$

$$\begin{cases} y = 5x + 145 \\ y = -15x + 5 \end{cases}$$

$$d. \quad \begin{cases} y = -5x + 145 \\ y = 15x + 5 \end{cases}$$

12) Solve using any method: $\begin{cases} -x + y = 1 \\ x + y = 3 \end{cases}$

- a. (2, 1)
- b. (1, 2)
- c. No Solutions
- d. Infinitely Many Solutions
- 13) Joe spent \$7.75 to purchase 23 snacks for the club meeting. Chips are \$0.25 and pretzels are \$0.50. How many of each type of snack did Joe buy?
 - a. 8 bags of chips; 15 bags of pretzels
 - b. 15 bags of chips; 8 bags of pretzels
 - c. 11 bags of chips; 12 bags of pretzels
 - d. 12 bags of chips; 11 bags of pretzels

14) Which ordered pair is a solution of

$$\begin{array}{c} x-y=-3\\ 2x+y=0 \end{array}$$

- a. (-3,0) b. (-1,2)
- c. (0,0)
- d. (1,4)
- **15)** What are the three ways to solve systems of equations?