

SOLVING SYSTEMS OF EQUATIONS BY GRAPHING – Day 2

1. Greta made the table below for the system of equations $y = 3x + 1$ and $y = -x - 3$. What can Greta conclude from the table?

x	$y = 3x + 1$	$y = -x - 3$
-3	-8	0
-2	-5	-1
-1	-2	-2
0	1	-3
1	4	-4
2	7	-5
3	10	-6

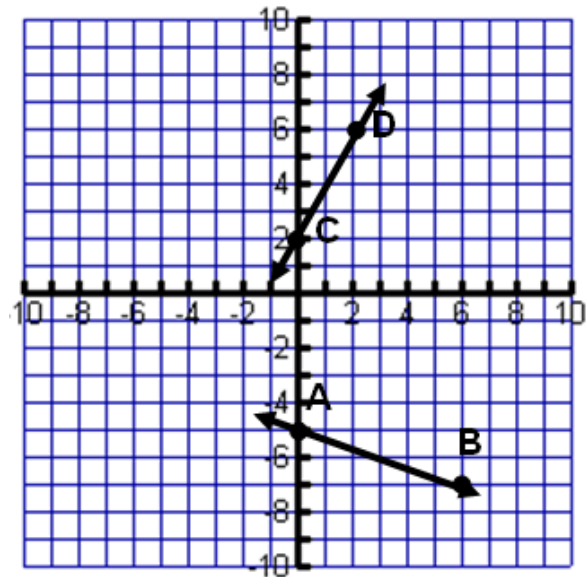
- A. The solution of the system of equations is (-2, -2).
- B. The solution of the system of equations is (-1, -2).
- C. The system of equations has infinitely many solutions.
- D. There is no solution to the system of equations.

2. Write the equation of each line then find the solution to the system

AB: _____

DC: _____

Solution: _____



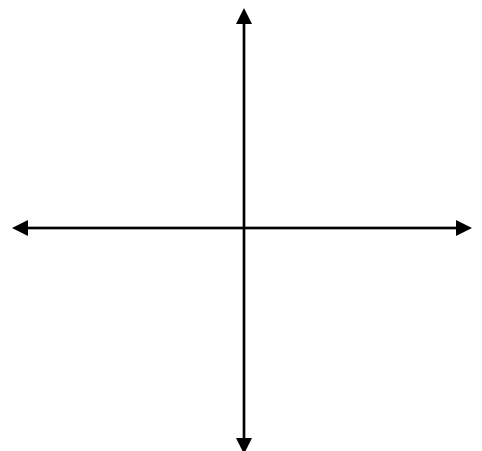
3. _____

$2x + y = -3$

and

x	y
-4	2
0	0
2	-1
6	-3

Equation (from table): _____



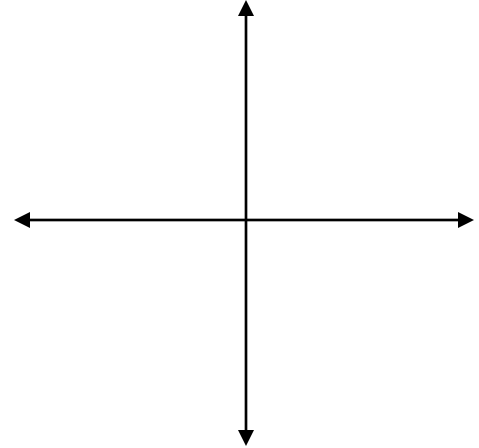
4. _____

$$4x - y = 3$$

$$y_1 = \underline{\hspace{2cm}}$$

$$2x + y = 9$$

$$y_2 = \underline{\hspace{2cm}}$$



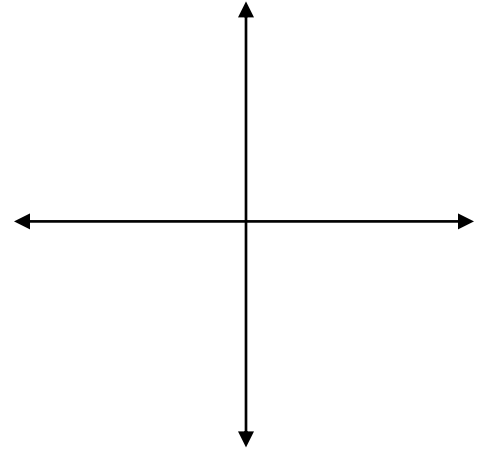
5. _____

$$y = 4x + 4$$

$$y_1 = \underline{\hspace{2cm}}$$

$$2y = -3x - 14$$

$$y_2 = \underline{\hspace{2cm}}$$



Use the graph shown to answer #6 - 7.

6. The graph best represents the solution to which system of equations?

A. $y = 6$

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

C. $y = 6$

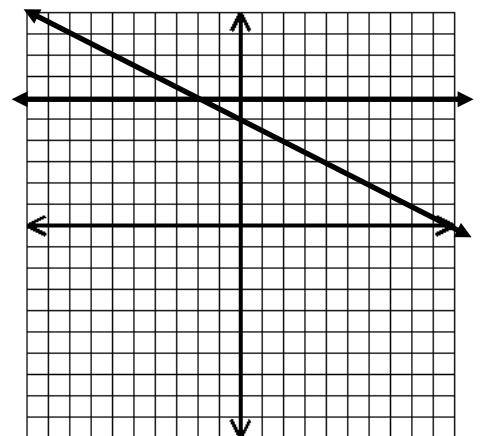
$$y = 2x + 5$$

B. $x = 6$

$$y = 2x + 5$$

D. $x = 6$

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



7. What is the solution to graph of the system of equations?

A. (6, -2)

C. (-2, 6)

B. (2, 6)

D. (2, -6)