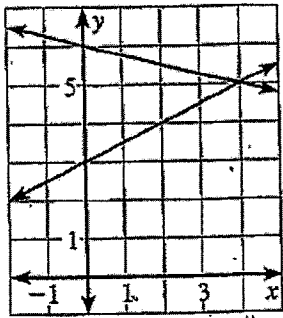


# Systems of Equations

name \_\_\_\_\_ per. \_\_\_\_\_ date \_\_\_\_\_

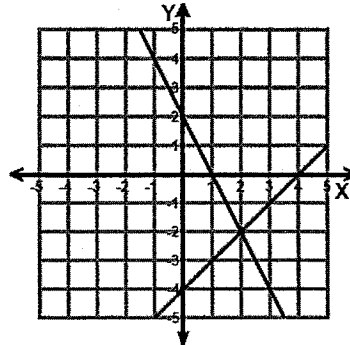
*"I CAN solve a system of equations by seeing where the lines cross."*

**I. Find the solution for each system of equations. Then check the solution by substituting the solution back into the system to see if it is true. SHOW ORGANIZED WORK!**



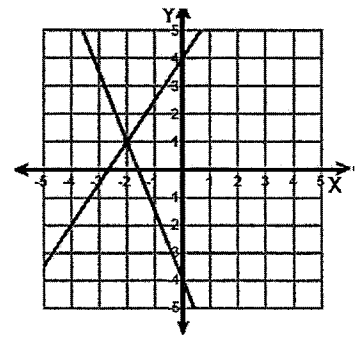
1. solution: \_\_\_\_\_  
 $y = \frac{1}{2}x + 3$

$x + 4y = 24$



2. solution: \_\_\_\_\_  
 $y = -2x + 2$

$y = x - 4$

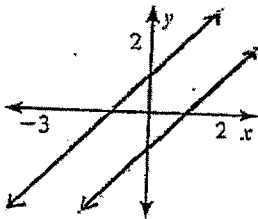


3. solution: \_\_\_\_\_  
 $-3x + 2y = 8$

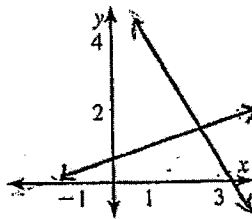
$5x + 2y = -8$

**Determine the # of solutions (none, one, or infinite) for each graph.**

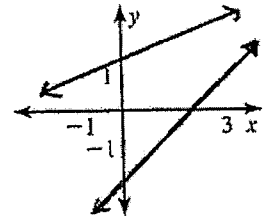
4.



5.



6.



**Multiple Choice. Determine which ordered pair is the solution for the system of equations. Show organized work by substituting the ordered pairs in for the correct answer).**

7.  $y = 2x - 5$  &  $x + y = 7$

- A. (1, -4)
- B. (4, 3)
- C. (7, 0)
- D. (3, 1)

8.  $y = -2x + 5$  &  $y = x - 4$

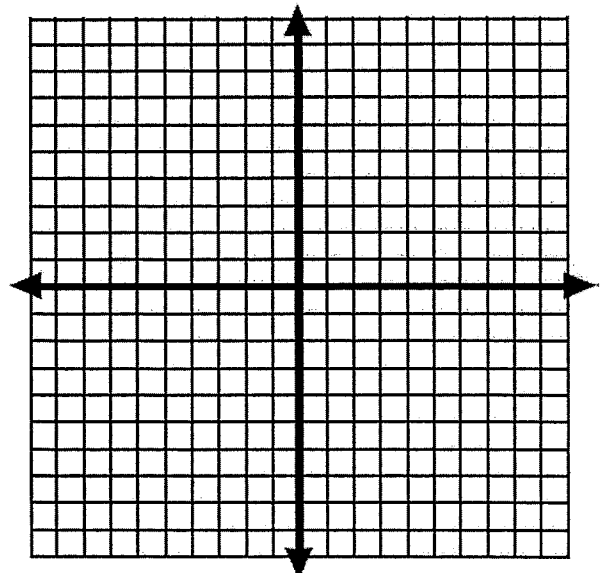
- A. (3, -1)
- B. (6, 2)
- C. (1, 3)
- D. (0, 5)

9.  $2x + y = 8$  &  $2x + 3y = 24$

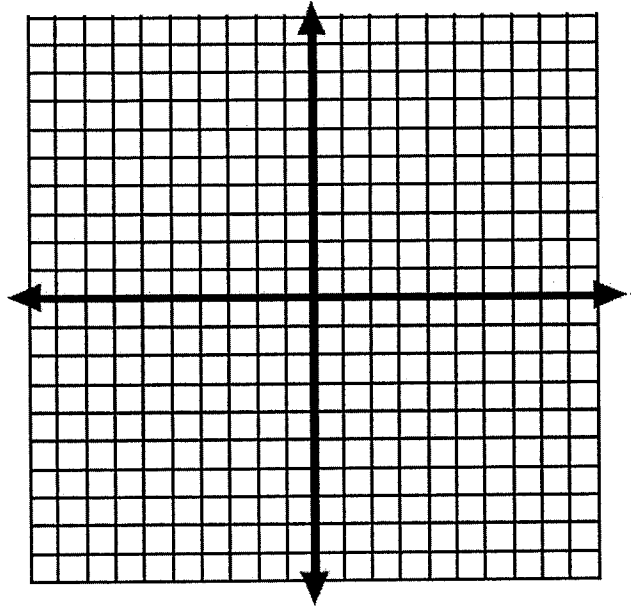
- A. (4, 0)
- B. (3, 6)
- C. (0, 8)
- D. (5, -2)

**Solve each system of equations by graphing lines for both equations.**

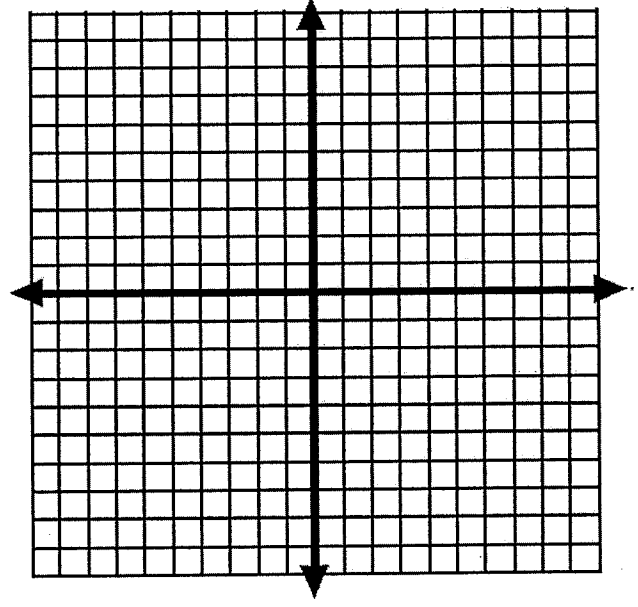
10.  $x + y = 6$                       solution: \_\_\_\_\_  
 $y = x + 4$



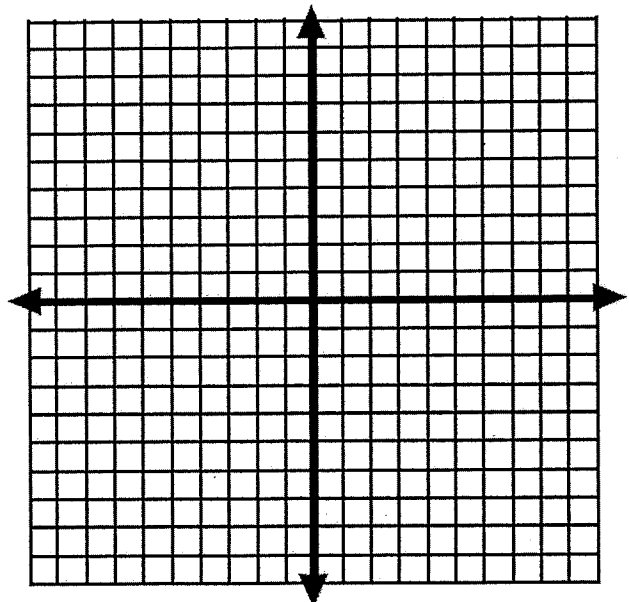
11.  $y = -3x + 1$  solution: \_\_\_\_\_  
 $y = 2x + 6$



12.  $x + 2y = 8$  solution: \_\_\_\_\_  
 $y = \frac{1}{2}x$



13.  $y = 4x$  solution: \_\_\_\_\_  
 $y = 4x - 6$



14.  $-4x + 2y = 8$  solution: \_\_\_\_\_  
 $y = -\frac{2}{3}x - 4$

