

Name \_\_\_\_\_

**ANSWER KEY**

Date \_\_\_\_\_

# SOLVING SYSTEMS OF EQUATIONS

# ANY METHOD

Solve the systems of equations below using any method. Choose the method that you think would be the easiest way to solve each problem! You will need a sheet of graph paper if you choose to solve by graphing.

1.  $3x + y = -8$   
 $-4x - y = 6$

( 2 , -14 )

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

( -1 , -2 )

3.  $4x - 5y = 6$   
 $2x + 5y = 18$

( 4 , 2 )

4.  $x + 4y = -2$   
 $3x + 2y = -6$

( -2 , 0 )

5.  $2x + 3y = 9$   
 $y = x - 2$

( 3 , 1 )

6.  $y = \frac{1}{2}x + 5$   
 $y = 3x - 5$

( 4 , 7 )

7.  $5x - 2y = 14$   
 $3x - 4y = -14$

( 6 , 8 )

8.  $x = 5y - 15$   
 $4x - 2y = 12$

( 5 , 4 )

9.  $5x - 9y = 9$   
 $-4x + 8y = -4$

( 9 , 4 )

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

( 2 , 10 )

11.  $y = -2x + 1$   
 $3x + 2y = 5$

( -3 , 7 )

12.  $4x + 5y = 12$   
 $3x - 2y = 32$

( 8 , -4 )