

ALGEBRA TEST  
7.1-7.3  
Systems of Equations

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

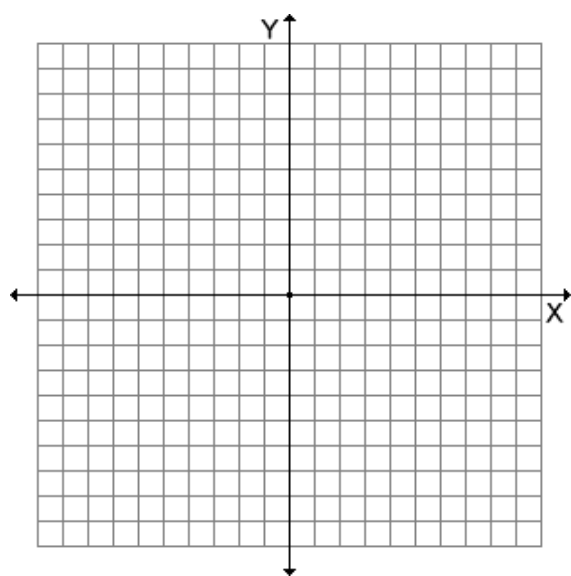
Solve #1 by graphing the two equations. For #s 2-8, use the method of your choice.

1.  $y = \frac{1}{2}x + 1$   
 $y = -3x + 8$

Solution: \_\_\_\_\_

2.  $3y + 2x = 26$   
 $x = 12y - 14$

Solution: \_\_\_\_\_



3.  $-7x + 2y = -5$   
 $10x - 2y = 6$

Solution: \_\_\_\_\_

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

Solution: \_\_\_\_\_

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

Solution: \_\_\_\_\_

6.  $y = -6x + 12$   
 $-4x - 2y = 0$

Solution: \_\_\_\_\_

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7.  $2x - 5y = -12$   
 $-4x + y = 6$

Solution: \_\_\_\_\_

8.  $6x + 7y = 5$   
 $4x - 2y = -10$

Solution: \_\_\_\_\_

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Is each point a solution to the system of equations? Answer YES OR NO. Show your work!

9. 
$$\begin{aligned} 10x - 3y &= 17 \\ -7x + y &= 9 \end{aligned}$$
       $(-4, -19)$       YES    NO      ← Circle answer

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10. 
$$\begin{aligned} 2x + 5y &= -7 \\ -3x - 6y &= 24 \end{aligned}$$
       $(-6, 1)$       YES    NO      ← Circle answer

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