Solving Systems of Equations Test

Name: _____

Directions: Answer each question by either circling an answer choice or writing in the answer. You will need to show work on attempted bonus problems to receive credit. Staple additional papers to the test.

1. Graph the system of equations. What is the solution to the system of equations?
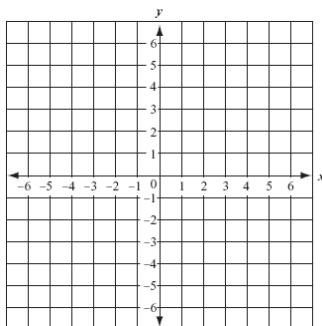
$y = 4x – 1$

$y = -x + 4$

a. (1, 4)

b. (1, 3)

c. no solution

d. infinitely many solutions

2. Graph the system of equations. What is the solution to the system of equations?
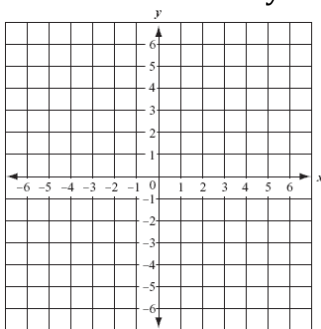
$y = (5/4)x -2$

$y = (5/4)x + 1$

a. (5, -2)

b. (5, -1)

c. no solution

d. infinitely many solutions

3. Solve the system of equations.

$y = 5x + 1$

$4x + y = 10$

4. Solve the system of equations.

$2x + y = 4$

$-2x + y = -4$

5. Solve the system of equations.

$4x + 2y = -14$

$5x + 3y = -17$

6. Solve the system of equations. $y = -3x + 4$
a. (1, 1) $-6x - 2y = -8$
b. (2, -2)
c. no solution
d. infinitely many solutions

7. Solve the system of equations. $x = y - 1$
a. (2, 1) $-x + y = -1$
b. (-2, 1)
c. no solution
d. infinitely many solutions

8. Solve the system of equations. $-5x + 4y = 20$
a. (-5, 4) $10x - 8y = -40$
b. (10, -8)
c. no solution
d. infinitely many solutions

Bonus : You must show all of your work to receive extra credit.

1. Solve the system of equations. $-4x + 5y = 17$
    $4x + 6y = -6$

2. Solve the system of equations. $4x + 2y = 8$
    $3x + 3y = 9$

3. Solve the system of equations. $3x + 4y = -3$
    $x + 2y = -1$

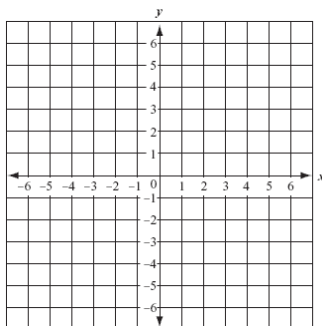Solving Systems of Equations Test   Name: _____

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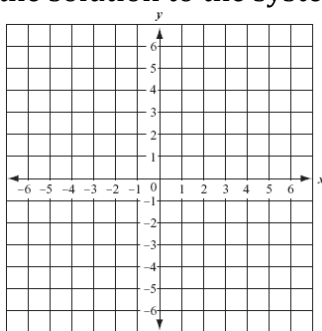b. (5, -1)

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$y = 4x - 1$

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a. (1, 4)

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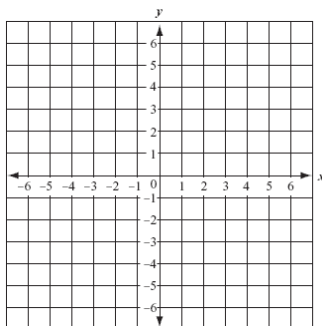$y = (5/4)x - 2$
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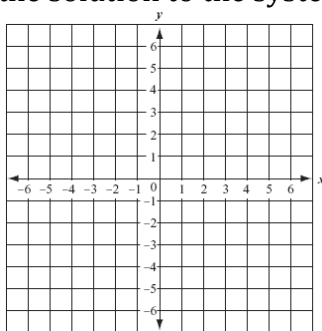$y = 4x - 1$
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