

# Review for Test #5 - Systems of Equations

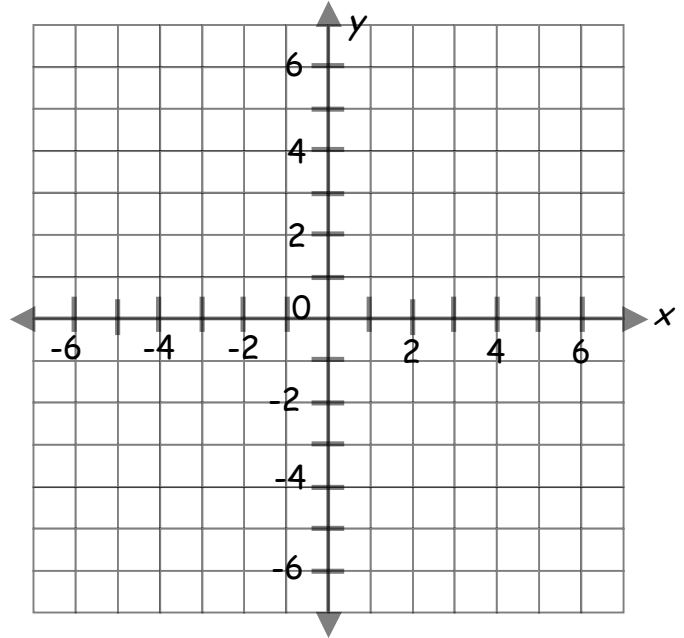
Name: \_\_\_\_\_ Class: \_\_\_\_\_

For each question, solve each system using the method indicated.

1.) Graphing

$$y = 3 - 2x$$

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



2.) Elimination

$$-4x - 2y = 14$$

$$-10x + 7y = -25$$

3.) Substitution

$$2x + y = 7$$

$$8x + 4y = 28$$

4.) Which of the following systems of equations has the ordered pair (2,2) as the solution?

(A)  $2x + y = 6$   
 $x - y = 4$

(B)  $2x + y = 6$   
 $x + y = 4$

(C)  $x + y = 5$   
 $2x + y = 6$

(D)  $5x - y = 8$   
 $x + 2y = 4$

- 5.) 432 tickets were sold for *The Lion King*. Balcony tickets cost \$40 each and tickets for the main floor cost \$120. The total amount of sales for each type of ticket was \$30,560. How many tickets were sold for the balcony?

How many tickets were sold each?



- 6.) A test has twenty questions worth 100 points. The test consists of True/False questions worth 3 points each and multiple-choice questions worth 11 points each. How many multiple choice questions are on the test?

- 7.) Greg and Bruno decide to spend the afternoon at an amusement park. They are charged for each ride and their favorite rides are the water slide and the roller coaster. Greg rode each ride three times and paid \$17.70. Bruno rode the water slide twice and the roller coaster three times and paid \$15.55. How much is each ride?



- 8.) Your teacher is giving a test worth 100 points, consisting of four-point questions and six-point questions. There are a total of 21 questions. How many of each type of question is on the test?

Make sure to visit <http://shehatamath.weebly.com> and click on Unit 5 – Systems under the Math 8 tab to check your work with the answer key online.