Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve using the elimination method.

1. 3x + 5y = – 41 ( , ) 2. 5x + 4y = 67 ( , )

x + 9y = – 65 2x – 8y = –2

Solve using Cramer’s Rule.

1. 3x + 2y = 6 4. 9x + 7y = 46

5x – 10y = –110 –3x – 12y = –54

Write a system of equations to represent this scenario. Solve using the method of your choice (elimination or Cramer’s Rule).

1. Wayne Deer purchased 5 rolls of wrapping paper and 3 packs of bows at Target for $33.50. Two weeks later he purchased 7 rolls of wrapping paper and 1 pack of bows (at the same prices) for $36.50. Find the cost of a roll of wrapping paper and a pack of bows.

Graph the system of linear inequalities.

6. y > – 1/3 x + 1

y ≤ 7/3 x – 2

State two points that

fall within the solution

set:

( , )

( , )

7. y < 2/3 x + 3

y > 2/3 x – 3

State two points that

fall within the solution

set:

( , )

( , )

Solve using the elimination method.

8. x – 8y + 2z = –39

 3x + 3y – 5z = 23

 x – 7y + z = –35

Use the following matrices for #9 – 13.

 A B C

$\left[\begin{matrix}1&-2\\9&6\end{matrix}\right]$ $\left[\begin{matrix}2&-5\\0&3\end{matrix}\right]$ $\left[\begin{matrix}3&-3&1\\-2&4&2\end{matrix}\right]$

9. A – B 10. –3 ( A + B )

11. AB 12. BC

13. BC + 5C