

Name: _____

Unit 5: Systems of Equations & Inequalities



Date: _____ Bell: _____

Homework 4: Solving Systems by Elimination
(Day 2)

**** This is a 2-page document! ****

Solve each system of equations by elimination. Clearly identify your solution.

1.
$$\begin{cases} x - 2y = 12 \\ 5x + 3y = -44 \end{cases}$$

2.
$$\begin{cases} 7x - 2y = 37 \\ 4x + y = 19 \end{cases}$$

3.
$$\begin{cases} 3x + 8y = -5 \\ -2x + 2y = 18 \end{cases}$$

4.
$$\begin{cases} x - 3y = 7 \\ 2x - 6y = 12 \end{cases}$$

5.
$$\begin{cases} 2x + y = -2 \\ 5x + 3y = -8 \end{cases}$$

6.
$$\begin{cases} 2x + 5y = 14 \\ 4x + 2y = -4 \end{cases}$$

7.
$$\begin{cases} 2x - 6y = 12 \\ -5x + 15y = -30 \end{cases}$$

8.
$$\begin{cases} 5x + 2y = -3 \\ 3x + 3y = 9 \end{cases}$$

9.
$$\begin{cases} 3x + 2y = -26 \\ 4x - 5y = -4 \end{cases}$$

10.
$$\begin{cases} 4x + 3y = -1 \\ 5x + 4y = 1 \end{cases}$$

11.
$$\begin{cases} 2x + 3y = 6 \\ 2y = 5 - x \end{cases}$$

12.
$$\begin{cases} 3x = 2y - 7 \\ 2x - 5y = 10 \end{cases}$$