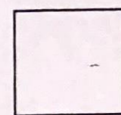


Name: \_\_\_\_\_

Unit 5: Systems of Equations & Inequalities



Date: \_\_\_\_\_ Bell: \_\_\_\_\_

Homework 3: Solving Systems by Elimination  
(Day 1)

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

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

1. 
$$\begin{cases} y = -x + 1 \\ y = 4x - 14 \end{cases}$$

2. 
$$\begin{cases} y = -3x + 5 \\ y = -8x + 25 \end{cases}$$

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

4. 
$$\begin{cases} 2x - 3y = 9 \\ -5x - 3y = 30 \end{cases}$$

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

6. 
$$\begin{cases} 2x - 3y = 14 \\ x + 3y = -11 \end{cases}$$

7. 
$$\begin{cases} -3x - 4y = -1 \\ 3x - y = -4 \end{cases}$$

8. 
$$\begin{cases} 6x + 5y = 4 \\ 6x - 7y = -20 \end{cases}$$

9. 
$$\begin{cases} 3x - 4y = -14 \\ 3x + 2y = -2 \end{cases}$$

10. 
$$\begin{cases} 6x - 3y = 12 \\ 4x - 3y = 24 \end{cases}$$

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

12. 
$$\begin{cases} 2x - y = -22 \\ y = 7x + 67 \end{cases}$$

13. 
$$\begin{cases} 6x - 3y = -21 \\ 4x = 3y - 9 \end{cases}$$

14. 
$$\begin{cases} 4y = -3 - x \\ 7x - 4y = 43 \end{cases}$$

15. 
$$\begin{cases} x + 3y = 5 \\ x = -6y + 14 \end{cases}$$

16. 
$$\begin{cases} -2x - y = 12 \\ y = -26 - 9x \end{cases}$$