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