Extended Algebra 1 Name:_____

Systems of Equations Worksheet 7

Use substitution to solve each system of equations. Remember to write your answers as an ordered pair, i.e. (x, y) .

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

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

3. $\begin{cases} y = -2x - 4 \\ 5x + 3y = -6 \end{cases}$

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

5. $\begin{cases} x + y = 2 \\ y = 4x + 7 \end{cases}$

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

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

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

9. $\begin{cases} 2x + 3y = -17 \\ y = x - 4 \end{cases}$

10. $\begin{cases} x = -4y + 1 \\ 2x - 3y = -9 \end{cases}$

11. $\begin{cases} y = 3x \\ x + 2y = -21 \end{cases}$

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