Principles of Algebra Name/Date_____

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 9B.1 – Solving Systems of Equations by Substitution

#1-7, Solve each system of equations by the substitution method.

1. $\begin{cases} y = x + 1 \\ 2x + y = 7 \end{cases}$

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

3. $\begin{cases} 4x - y = 0 \\ 12x - 6y = 24 \end{cases}$

4. $\begin{cases} 2x - 5y = -28 \\ 3x + 15y = 3 \end{cases}$

5. $\begin{cases} 2x = 4y \\ 7x + 2y = -8 \end{cases}$

6. $\begin{cases} 4y = 8x - 12 \\ 2x - y = -5 \end{cases}$

7. $\begin{cases} -4x - y = 5 \\ 12x + 3y = -15 \end{cases}$

8. Mando has three times as many quarters as dimes. If the sum of the number of dimes and twice the number of quarters is 21, how many of each type of coin does he have?