

Name: _____

Period: _____

HW #4 –Systems using SubstitutionSolve by substitution. Tell whether the system has *no solution*, *one solution* or *infinitely many solutions*.

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

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

3.
$$\begin{cases} y = 5x + 5 \\ y = 15x - 1 \end{cases}$$

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

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

6.
$$\begin{cases} x + 2y = 200 \\ x = y + 50 \end{cases}$$

7.
$$\begin{cases} 2x + y = 3 \\ y = 2x + 1 \end{cases}$$

8.
$$\begin{cases} y = \frac{3}{2}x \\ 6x - 4y = 1 \end{cases}$$