

Homework – Substitution Method

Solve each system by substitution.

1. $\begin{cases} 3x + 4y = 9 \\ y = x - 3 \end{cases}$	2. $\begin{cases} 8x - 14y = 5 \\ x = 3y \end{cases}$ $8(3y) - 14y = 5$ $24y - 14y = 5$ $\frac{10y}{10} = \frac{5}{10}$ $\boxed{y = .5}$ $(\quad .5)$	3. $\begin{cases} 12x + 4 = 8y \\ y = x - 7 \end{cases}$	4. $\begin{cases} x = -0.25y + 1 \\ 4x + y = 6 \end{cases}$ $4(-0.25y + 1) + y = 6$ $-1y + 4 + y = 6$ $4 = 6$ NO SOLUTION
5. $\begin{cases} 2x - y = 1 \\ 4x + 6y = 10 \end{cases}$	6. $\begin{cases} x - 7y = -10 \\ 3x - 2y = 8 \end{cases}$		