

6. $4y = 2(y-5) - 2$

$4y = 2y - 10 - 2$

$4y = 2y - 12$

$\underline{-2y} \quad \underline{-2y}$

$2y = -12$

$\frac{2y}{2} = \frac{-12}{2}$

$y = -6$

- 1) Simplify
- 2) Variables together
- 3) Undo +/-
- 4) Undo */÷

9. $3 - 6a = 9 - 6a$

$\underline{+6a} \quad \underline{+6a}$

$3 = 9$

This is false.

No Solution

$$\begin{array}{r|l}
 4. \quad 41 - 2n & = 2 + n \\
 \hline
 + 2n & + 2n \\
 \hline
 41 & = 2 + 3n \\
 - 2 & - 2 \\
 \hline
 39 & = 3n \\
 \hline
 3 & 3 \\
 \hline
 13 & = n
 \end{array}$$

$$\begin{array}{r|l}
 7. \quad 6x - 9x - 4 & = -2x - 2 \\
 \hline
 -3x - 5 & = -2x - 2 \\
 + 3x & + 3x \\
 \hline
 0 & \\
 -5 & = x - 2 \\
 + 2 & + 2 \\
 \hline
 -3 & = x
 \end{array}$$