

Solving Equations

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Steps

- ① Simplify
 - a) distribute
 - b) Combine like terms (on the same side)
- ② Move Variable terms to one side (Add/Subtract)
- ③ Move the Constants to the other Side (Add/sub.)
- ④ Divide by Coefficient

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Practice

$$\textcircled{1} \quad 1 - (2x - 4) = 8$$

$$1 - 2x + 4 = 8$$

$$\begin{array}{r} -2x + 5 = 8 \\ -5 \quad | \quad -5 \\ \hline -2x = 3 \end{array}$$

$$\begin{array}{r} -2x = 3 \\ -2 \quad | \quad -2 \\ \hline x = -1.5 \end{array}$$

$$x = -1.5$$

$$\textcircled{2} \quad 2p - 9 = 3(2p - 5)$$

$$\begin{array}{r} 2p - 9 = 6p - 15 \\ -2p \quad | \quad -2p \\ \hline -9 = 4p - 15 \end{array}$$

$$\begin{array}{r} -9 = 4p - 15 \\ +15 \quad | \quad +15 \\ \hline 6 = 4p \end{array}$$

$$\begin{array}{r} 6 = 4p \\ 4 \quad | \quad 4 \\ \hline p = 1.5 \end{array}$$

$$p = 1.5$$

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$$\textcircled{3} \quad 3h + 6(h-1) = 9h - 6$$

$$3h + 6h - 6 = 9h - 6$$

$$\begin{array}{r} 9h - 6 = 9h - 6 \\ -9h \quad -9h \\ \hline \end{array}$$

$$-6 = -6$$

Infinite Solutions

$$\textcircled{4} \quad 4n - 3 - 5n = 6 - n + 4$$

$$\begin{array}{r} -1n - 3 = -1n + 10 \\ +1n \quad +1n \\ \hline \end{array}$$

$$-3 \neq 10$$

No Solutions

Sep 11-8:55 AM