

What you see and click

Algebra
Add and Subtract from Both Sides
If you add or subtract the same thing from both sides, the equation stays in balance.

Try it yourself:

+x	+1
-x	-1

Watch the equation.
Try to get "x = "

New Equation

$-3x - 2 = -4x + 2$

Add +1 to both sides

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If you add or subtract the same thing from both sides, the equation stays in balance.

Try it yourself:

+x	+1
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Watch the equation.
Try to get "x = "

New Equation

$-3x - 1 = -4x + 3$

Add +1 to both sides

Algebra
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Try it yourself:

+x	+1
-x	-1

Watch the equation.
Try to get "x = "

New Equation

$-3x = -4x + 4$

Add x to both sides

Algebra
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Try it yourself:

+x	+1
-x	-1

Watch the equation.
Try to get "x = "

New Equation

$-2x = -3x + 4$

Add x to both sides

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New Equation

$-x = -2x + 4$

Add x to both sides

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Watch the equation.
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New Equation

$0 = -x + 4$

Add x to both sides

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+x	+1
-x	-1

Watch the equation.
Try to get "x = "

New Equation

$x = 4$

Add x to both sides

What you write

$$\begin{array}{r} -3x - 2 = -4x + 2 \\ +1 \qquad +1 \\ \hline \end{array}$$

$$\begin{array}{r} -3x - 1 = -4x + 3 \\ +1 \qquad +1 \\ \hline \end{array}$$

$$\begin{array}{r} -3x = -4x + 4 \\ +x \qquad +x \\ \hline \end{array}$$

$$\begin{array}{r} -2x = -3x + 4 \\ +x \qquad +x \\ \hline \end{array}$$

$$\begin{array}{r} -x = -2x + 4 \\ +x \qquad +x \\ \hline \end{array}$$

$$\begin{array}{r} 0 = -x + 4 \\ +x \qquad +x \\ \hline \end{array}$$

$$x = 4$$