



2.1.C SOLVING MULTI-STEP EQUATIONS
with variables on only one side and distributing !!!

1. Clean up any double negatives.
2. DISTRIBUTE, if necessary!
3. Combine like terms that are together on one side of the equal sign, if necessary.
4. Undo anything added or subtracted to the variable side.
5. Undo anything multiplied or divided to the variable.




Steps

Ex: $12 + 7 - 2x + 6x = -5$



Steps


Ex: $-4 - 8 + 3 = -8s - (-5s)$



Steps

Ex: $3(x + 2) = 21$

FIND THE MISTAKE!



Ex: $3(-6x + 7) + 4x = -7$

$$\begin{array}{r} -18x + 21 + 4x = -7 \\ 14x + 21 = -7 \\ -21 \quad -21 \\ \hline 14x = -28 \\ \hline 14 \quad 14 \\ \hline x = -2 \end{array}$$


Steps

Distribute

Combine like terms

Undo adding 21

Undo multiplying by 14



Steps

Ex: $31 = 7(-x - 2) - (x - 5)$