GRADE 8 MATH · CLASSWORK · SPECIAL ED

Solve Equations with Negative Coefficients

SCORE / 25

01 Part A · Practice

To move a negative variable term, add its opposite to both sides: to remove $-3x$, add $3x$.

EXAMPLE

Solve $-3x + 8 = 2x - 17$.

1. Add $3x$ to both sides: $8 = 5x - 17$.
2. Add 17: $25 = 5x$.
3. Divide by 5: $x = 5$.

WORDS TO KNOW

negative coefficient	a negative number in front of a variable
opposite	the number with the other sign: $-3x$ and $3x$
variables on both sides	the variable appears on the left and on the right

1 ●○○

Describe the first step to solve $-4h + 7 = h - 3$. Then solve.

HINT Parentheses? Like terms? Variables on both sides?

2 ●○○

Solve. $t + 21 = 30 - 2t$

HINT Move the variable terms to one side.

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Preview - the full worksheet and its answer key are at primeworksheet.com