

2.3 Equations and Formulas with More Than One Variable Term

Collecting Like Terms

We must collect all like terms before we can solve equations.

$$7m - 8 = 5m + 2$$

1) move variables to one side and numbers to the other.

$$7m - 5m = 2 + 8$$

2) perform operations for like terms

$$2m = 10$$

3) solve

$$m = 10/2$$

$$m = 5$$

Check your answer

$$7m - 8 = 5m + 2$$

LS

RS

$$7(5) - 8$$

=

$$5(5) + 2$$

$$35 - 8$$

=

$$25 + 2$$

$$27$$

=

$$27$$

LS

=

RS

Yeah!!!

Variables in a Bracket

$$3(d+8) - d = -(5 - d)$$

1) distribute (expand) into the bracket

$$3d + 24 - d = -5 + d$$

2) collect the terms

$$3d - d - d = -5 - 24$$

$$d = -29$$

Check

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