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Combine Like Terms

* Combining like terms is a process to _____ an expression by _____ or _____ like terms.
* You can only combine like terms that have the same _____ raised to the same _____.
* Process to combine like terms:
  - Step 1: Marking _____ with same colors or same shapes.
  - Step 2: Move _____ the like terms together. (Move the **SIGN** wit the terms)
  - Step 3: Add or Subtract the _____ of the variables.

EXAMPLE 1: Simplify $2a + 3b - 4a$

Step 1: $\boxed{2a}$ $+3b$ $\boxed{-4a}$

Step 2: $\boxed{2a - 4a}$ $+3b$

Step 3: $(2 - 4)a + 3b = -2a + 3b$

Solution:

EXAMPLE 2: Simplify $14m - 3n^2 - 2n^2 + 3m$

Step 1:

Step 2:

Step 3:

Solution:

LIVEWORKSHEETS

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DO NOW!

Simplify each expression.

(1) $7x - 6x$

Solution:

(2) $4 - 8h - 5$

Solution:

(3) $6 - 8k - 4k$

Solution:

(4) $-5 + 8 + 9g - 6g$

Solution:

(5) $6 + 4p - 9p + 2$

Solution:

(6) $y - 5y$

Solution:

(7) $-4x - 10x$

Solution:

(8) $-2x + 11 + 6x$

Solution:

(9) $11r - 12r$

Solution:

(10) $n + 4 - 9 - 5n$

Solution:

(11) $12r + 5 + 3r - 5$

Solution:

(12) $-1 - 14x^2 + 13x^2 + 9x^2$

Solution:

(13) $5x - 6y^5 - 14y^5 - 13x$

Solution:

(14) $-3x + 14x^2 + 6x - 1 + 9x$

Solution:

LIVEWORKSHEETS