

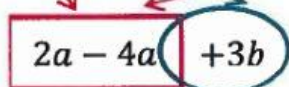
Full Name: \_\_\_\_\_ Date: \_\_\_\_\_

## 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** with the terms)
  - ❖ Step 3: Add or Subtract the \_\_\_\_\_ of the variables.

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

Step 1: 

Step 2: 

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

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

Step 1:

Step 2:

Step 3:

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## DO NOW!

Simplify each expression.

(1)  $7x - 6x$

(2)  $4 - 8h - 5$

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

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

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

(6)  $y - 5y$

(7)  $-4x - 10x$

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

(9)  $11r - 12r$

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

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

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

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

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