VARIABLE:

TERM:

LIKE TERM:
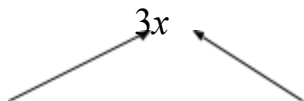
Examples:
- x and $2x$ -
- x and x^2 -
- ab and $2ab$ -
- a^2b and ab^2 -

In the term $3x$

When simplifying algebraic expressions:
- add or subtract **like terms only**
- apply integer rules to the **coefficients** of like terms

Example: Collect the like terms and simplify:

a) $5x - 3x$ b) $-3mn + 5mn - 8mn$

c) $2k - (9k-2)$ d) $3x^2 + 5x - 9x + 7$

e) $3a^3 + b^3 - 6a^2b - a^3 + 6ab^2 + a^2b$

f) $8(2x+3) - 7x$

Try these!

1. $5x + 2 + 3x + 4$

2. $3a^2 - 2ab - 2b^2 - 2a^2 - ab + b^2$

3. $4y - (2y + 1)$

4. $-(6t - 2v) - 8t - v$

5. $4(3a + 1) - (5a - 8)$

6. $3x - 2(x + 7) + 5(-x - 1)$

Homework: Textbook:

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