NAME

Module 2   Writing and Simplifying Algebraic
Expressions
Lesson 4   Combining Like Terms

*guided
practice*

Set 1

Identify like terms.

1. $2a^2b$, a^2b, $4ab^2$

$\textbf{2a^2b, a^2b}$

2. z, $2x$, $3y$, $4y^2$, $5z$, $2x$

$\textbf{2x, 2x; z, 5z}$

Simplify.

3. $3r + 4s + 2s - 3r$

$\textbf{6s}$

4. $2x^2 + 4 + 2x - 3x - 1$

$\textbf{2x^2 - x + 3}$

Set 2

Add.

1. $3a^2 + 5a - 7$ and $a^2 - 2a + 6$

$\textbf{(3a^2 + 5a - 7) + (a^2 - 2a + 6)}$

$\textbf{3a^2 + 5a - 7 + a^2 - 2a + 6}$

$\textbf{4a^2 + 3a - 1}$

2. $3y^2 - 2y - 4$

$+ 2y + 4$

$\textbf{3y^2 - 2y - 4}$

$\textbf{+ 2y + 4}$

$\textbf{3y^2}$
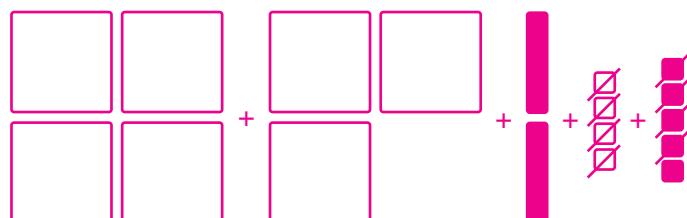
Subtract.

3. $(2t^2 - 8) - (t^2 - 3t + 2)$

$\textbf{(2t^2 - 8) - (t^2 - 3t + 2)}$
$\textbf{(2t^2 - 8) + (-t^2 + 3t - 2)}$
$\textbf{2t^2 - 8 - t^2 + 3t - 2)}$
$\textbf{t^2 + 3t - 10}$

4. $x^2 - x + 2$

$- (x^2 - 4x - 3)$

$\textbf{x^2 - x + 2}$

$\textbf{-x^2 + 4x + 3}$

$\textbf{3x + 5}$
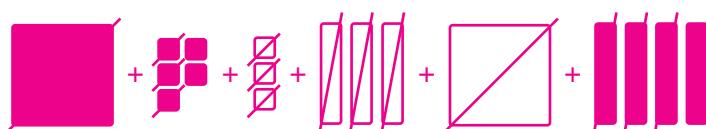
Manipulative Set

Simplify using Algebra Tiles to model each expression.

**1.** $4x^2 + 3x^2 - 2x + 4 - 5$
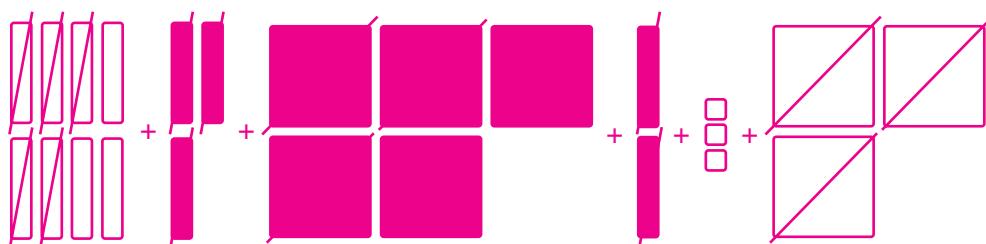
$7x^2 - 2x - 1$

**2.** $-x^2 - 5 + 3 + 3x + x^2 - 4x$
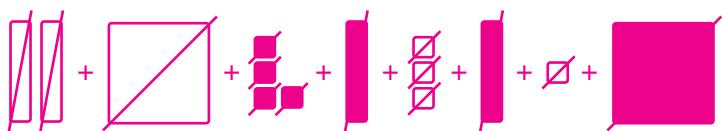
$-x - 2$

3. $8x - 3x - 5x^2 - 2x + 3 + 3x^2$

$-2x^2 + 3x + 3$

4. $2x + x^2 - 4 - x + 3 - x + 1 - x^2$

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monotype composition
410–467–3300