



<b>2. Identify each property illustrated.</b>	
a. $(6 \cdot 4) \cdot 5 = 6 \cdot (4 \cdot 5)$	b. $5 + 3 = 3 + 5$
c. $4 \cdot 1 = 4$	d. $10 + (-10) = 0$

<b>Section 1.2: Algebraic Expressions and Models</b>
<b>Goal: Evaluate algebraic expressions and simplify algebraic expressions by combining like terms.</b>

<b>Evaluating Algebraic Expressions</b>
1. Substitute
2. Simplify using Order of Operations (PEMDAS)

**Examples: Evaluate each expression**

1. $x^2(4 - x)$ when $x = 2$	2. $3x^3 + 4$ when $x = -2$
3. $4x + 3y + 2$ when $x = 4$ and $y = -3$	4. $9(m - n)^2$ when $m = 1$ and $n = 4$

<b>Simplifying and Combining Like Terms</b>
<b>Like terms</b> must have the same _____ and same _____.

**Examples: Simplify each expression.**

1. $7x - (9x + 5)$	2. $2(n^2 + n) - 5(n^2 - 4n)$
3. $7x - 2y + 3 - 9y + 4 - 5x$	