

8-2 Study Guide

Multiplying a Polynomial by a Monomial

Polynomial Multiplied by Monomial

- The **Distributive Property** can be used to multiply a polynomial by a monomial.
- You can multiply **horizontally or vertically**.
- Sometimes multiplying results in like terms.
- The products can be simplified by **combining like terms**.

Example 1: Find $-3x^2(4x^2 + 6x - 8)$.

Horizontal Method

$$\begin{aligned} & -3x^2(4x^2 + 6x - 8) \\ &= -3x^2(4x^2) + (-3x^2)(6x) - (-3x^2)(8) \\ &= -12x^4 + (-18x^3) - (-24x^2) \\ &= -12x^4 - 18x^3 + 24x^2 \end{aligned}$$

Vertical Method

$$\begin{array}{r} 4x^2 + 6x - 8 \\ (\times) \quad -3x^2 \\ \hline -12x^4 - 18x^3 + 24x^2 \end{array}$$

The product is $-12x^4 - 18x^3 + 24x^2$.

Example 2: Simplify $-2(4x^2 + 5x) - x(x^2 + 6x)$.

$$\begin{aligned} & -2(4x^2 + 5x) - x(x^2 + 6x) \\ &= -2(4x^2) + (-2)(5x) + (-x)(x^2) + (-x)(6x) \\ &= -8x^2 + (-10x) + (-x^3) + (-6x^2) \\ &= (-x^3) + [-8x^2 + (-6x^2)] + (-10x) \\ &= -x^3 - 14x^2 - 10x \end{aligned}$$

Exercises

Find each product.

1. $x(5x + x^2)$

2. $x(4x^2 + 3x + 2)$

3. $-2xy(2y + 4x^2)$

4. $-2g(g^2 - 2g + 2)$

5. $3x(x^4 + x^3 + x^2)$

6. $-4x(2x^3 - 2x + 3)$

Multiplying Monomials Study Guide Answers

L Cohen



Multiplying Monomials Study Guide Answers:

Multiplying Monomials Study Guide Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Multiplying Monomials Study Guide Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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