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

$$-3x^{2}(4x^{2} + 6x - 8)$$

$$= -3x^{2}(4x^{2}) + (-3x^{2})(6x) - (-3x^{2})(8)$$

$$= -12x^{4} + (-18x^{3}) - (-24x^{2})$$

$$= -12x^{4} - 18x^{3} + 24x^{2}$$

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

$$-2(4x^{2} + 5x) - x(x^{2} + 6x)$$

$$= -2(4x^{2}) + (-2)(5x) + (-x)(x^{2}) + (-x)(6x)$$

$$= -8x^{2} + (-10x) + (-x^{3}) + (-6x^{2})$$

$$= (-x^{3}) + [-8x^{2} + (-6x^{2})] + (-10x)$$

$$= -x^{3} - 14x^{2} - 10x$$

Vertical Method

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

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

Exercises

Find each product.

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

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

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

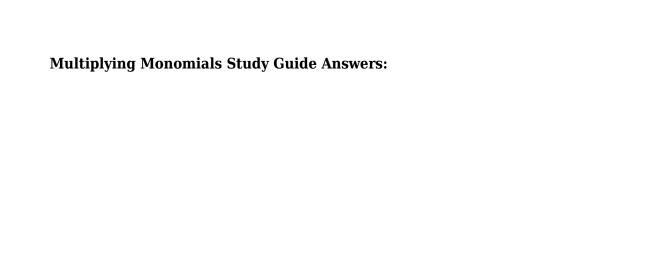
$$4.-2g(g^2-2g+2)$$

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

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

Multiplying Monomials Study Guide Answers

Anthony S. Fauci



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