

8-2 Study Guide and Intervention

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

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

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

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

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

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

7. $-4a(10 + 3x)$

8. $3y(-4x - 6x^3 - 2y)$

9. $2x^2y^2(3xy + 2y + 5x)$

Simplify each expression.

10. $x(3x - 4) - 5x$

11. $-x(2x^2 - 4x) - 6x^2$

12. $6a(2a - b) + 2a(-4a + 5b)$

13. $4r(2r^2 - 3r + 5) + 6r(4r^2 + 2r + 8)$

14. $4n(3n^2 + n - 4) - n(3 - n)$

15. $2b(b^2 + 4b + 8) - 3b(3b^2 + 9b - 18)$

16. $-2z(4z^2 - 3z + 1) - z(3z^2 + 2z - 1)$

17. $3(4x^2 - 2x) - 3(-6x^2 + 4) + 2x(x - 1)$

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Table of Contents Study Guide And Intervention Multiplying Polynomial Answers

1. Understanding the eBook Study Guide And Intervention Multiplying Polynomial Answers
 - The Rise of Digital Reading Study Guide And Intervention Multiplying Polynomial Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide And Intervention Multiplying Polynomial Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide And Intervention Multiplying Polynomial Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide And Intervention Multiplying Polynomial Answers
 - Personalized Recommendations
 - Study Guide And Intervention Multiplying Polynomial Answers User Reviews and Ratings

- Study Guide And Intervention Multiplying Polynomial Answers and Bestseller Lists
- 5. Accessing Study Guide And Intervention Multiplying Polynomial Answers Free and Paid eBooks
 - Study Guide And Intervention Multiplying Polynomial Answers Public Domain eBooks
 - Study Guide And Intervention Multiplying Polynomial Answers eBook Subscription Services
 - Study Guide And Intervention Multiplying Polynomial Answers Budget-Friendly Options
- 6. Navigating Study Guide And Intervention Multiplying Polynomial Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide And Intervention Multiplying Polynomial Answers Compatibility with Devices
 - Study Guide And Intervention Multiplying Polynomial Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide And Intervention Multiplying Polynomial Answers
 - Highlighting and Note-Taking Study Guide And Intervention Multiplying Polynomial Answers
 - Interactive Elements Study Guide And Intervention Multiplying Polynomial Answers
- 8. Staying Engaged with Study Guide And Intervention Multiplying Polynomial Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide And Intervention Multiplying Polynomial Answers
- 9. Balancing eBooks and Physical Books Study Guide And Intervention Multiplying Polynomial Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide And Intervention Multiplying Polynomial Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide And Intervention Multiplying Polynomial Answers
 - Setting Reading Goals Study Guide And Intervention Multiplying Polynomial Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide And Intervention Multiplying Polynomial Answers
 - Fact-Checking eBook Content of Study Guide And Intervention Multiplying Polynomial Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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