

Algebra 1 Regents Study Guide

LIKE TERMS: same variable and same exponent
 if var. diff. $\checkmark$
 if exp. diff. $\times$

ADDITION: $\oplus$ "sum"

- Only add **LIKE TERMS**

ex: $(2x^2 + 4x^2 - 3) + (3x^2 + 2x^2 - 5x^2) =$
 $2x^2 + 3x^2 + 4x^2 + 3x^2 - 5x^2 =$
 $7x^2 + 3x^2 - 2x^2 = 8x^2$

SUBTRACTION: $\ominus$ "difference"

- Only subtract **LIKE TERMS**

ex: $(4x^2 - 3x - 10) - (2x^2 - 3x - 2) =$ Distribute the -1
 $4x^2 - 3x - 10 - 2x^2 + 3x + 2 =$
 $-2x^2 + 0x - 8 = -2x^2 - 8$

MULTIPLYING: $\otimes \otimes \otimes$ "product"

Multiply coefficients, add exponents

1. monomial $\cdot$ monomial: $2xy \cdot 10xy^2 = 20x^2y^3$

2. monomial $\cdot$ polynomial:
 $3x^2(2x^2 + 4x^2 + 5) =$ Distribute the monomial
 $6x^4 + 12x^3 + 15x^2$

3. binomial $\cdot$ binomial: FOIL = FOIL
 = FOC: $(2x + 3)(x + 2) =$

$(2x^2 + 4x + 3x + 6) = (2x^2 + 7x + 6)$

= FOC:
 $2x \begin{matrix} 2x^2 & 3x \\ -3 & -3 \end{matrix} = 2x^3 - 6x^2 + 9x - 9$
 $1 \begin{matrix} 2x^2 & 3x \\ -3 & -3 \end{matrix} = 2x^2 - 3x - 9$

4. binomial $\cdot$ polynomial:
 $(x + 5)(2x^2 + 3x - 7) =$

$x \begin{matrix} 2x^2 & 3x & -7 \\ 2x^2 & 3x & -7 \end{matrix} = 2x^3 + 3x^2 - 7x$
 $+ 5 \begin{matrix} 2x^2 & 3x & -7 \\ 10x^2 & 15x & -35 \end{matrix} = 2x^3 + 13x^2 - 22x - 35$

DIVIDING: $\oslash$ "quotient"

Divide coefficients, subtract exponents

ex: $\frac{6x^3y^2}{2x^2y} = 3xy$

$\frac{6x^3y^2}{2x^2y} = \frac{6}{2} \cdot \frac{x^3}{x^2} \cdot \frac{y^2}{y} =$

$3 \cdot x^{3-2} \cdot y^{2-1} = 3xy$

Applications:

Perimeter: Add up all sides

ex: $\square$ ex: $P = 2L + 2W = 2(3) + 2(4) = 14$

Area: Multiply length and width

ex: $\square$ ex: $A = L \cdot W = 3 \cdot 4 = 12$



$A = \frac{1}{2}bh$

Volume: Multiply length, width, and height



$V = L \cdot W \cdot H = 2 \cdot 3 \cdot 4 = 24$
 $= (2 \cdot 3) \cdot 4 = 6 \cdot 4 = 24$
 $= 2 \cdot (3 \cdot 4) = 2 \cdot 12 = 24$

Area:

ex: $P = 2L + 2W$

Perimeter:

ex: $A = L \cdot W$

Subtraction:

ex: $P = 2L + 2W$

Multiplication:

ex: $A = L \cdot W$

Division:

ex: $V = L \cdot W \cdot H$

Equation:

ex: $P = 2L + 2W$

Algebra 2notetaking Guide

Nicole L. Fonger



Algebra 2 notetaking Guide:

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Algebra 2, Grades 9-12 Notetaking Guide, 2006-09-05 McDougal Littell High School Math
McDougal, McDougal-Littell Publishing Staff, 2004-07-21 *Algebra 2, Grades 9-12 Notetaking Guide* Holt
McDougal, 2006-09-05 **Holt McDougal Concepts and Skills** Larson, 2008-02-15 Rules and examples in algebra. 2 pt.
[and] Key Thomas Dalton, 1874 *Making Algebra Meaningful* Nicole L. Fonger, 2024-08-23
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Table of Contents Algebra 2notetaking Guide

1. Understanding the eBook Algebra 2notetaking Guide
 - The Rise of Digital Reading Algebra 2notetaking Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2notetaking Guide
 - 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 Algebra 2notetaking Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2notetaking Guide
 - Personalized Recommendations
 - Algebra 2notetaking Guide User Reviews and Ratings
 - Algebra 2notetaking Guide and Bestseller Lists
5. Accessing Algebra 2notetaking Guide Free and Paid eBooks
 - Algebra 2notetaking Guide Public Domain eBooks
 - Algebra 2notetaking Guide eBook Subscription Services
 - Algebra 2notetaking Guide Budget-Friendly Options

6. Navigating Algebra 2notetaking Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2notetaking Guide Compatibility with Devices
 - Algebra 2notetaking Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2notetaking Guide
 - Highlighting and Note-Taking Algebra 2notetaking Guide
 - Interactive Elements Algebra 2notetaking Guide
8. Staying Engaged with Algebra 2notetaking Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2notetaking Guide
9. Balancing eBooks and Physical Books Algebra 2notetaking Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2notetaking Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2notetaking Guide
 - Setting Reading Goals Algebra 2notetaking Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2notetaking Guide
 - Fact-Checking eBook Content of Algebra 2notetaking Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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