

Algebra 1 Regents Study Guide

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

ADDITION: $\oplus$ "same"

- Only add **LIKE TERMS**

ex: $(2x^2 + 4x^2 - 3) + (3x^2 + 2x^2 - 5x^2) =$
 $2x^2 + 3x^2 + 4x^2 + 2x^2 - 5x^2 =$
 $2x^2 + 3x^2 + 4x^2 = 9x^2$

SUBTRACTION: $\ominus$ "different"

- Only subtract **LIKE TERMS**

ex: $(4x^2 - 3x - 10) - (2x^2 - 3x - 2) =$ Distribute the -1
 $4x^2 - 3x - 10 - 2x^2 + 3x + 2 =$
 $-2x^2 + 6x - 12$

MULTIPLYING: $\otimes \otimes \otimes$ "same"

Multiply coefficients, add exponents

1. monomial $\cdot$ monomial: $2x^2 \cdot 3x^3 = 6x^{2+3} = 6x^5$

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

3. binomial $\cdot$ binomial:
 FOIL: $(2x + 3)(x + 2) =$ First, Outer, Inner, Last

$(2x^2 + 4x + 6x + 6) = 2x^2 + 10x + 6$

4. Binomial $\cdot$ Binomial:
 $(x + 2)(x + 3) = x^2 + 3x + 2x + 6 = x^2 + 5x + 6$

5. Binomial $\cdot$ Polynomial:
 $(x + 2)(x^2 + 3x + 4) = x^3 + 3x^2 + 4x + 2x^2 + 6x + 8 = x^3 + 5x^2 + 10x + 8$

INDIVIDUALS: $\otimes$ "different"

Different coefficients, different exponents

ex: $2x^2 + 3x^2 + 4x^2 = 9x^2$

$\frac{2x^2}{2} = x^2$

Applications:

Perimeter: Add up all sides

ex: $2x + 3x + 4x + 5x = 14x$

Area: Multiply length and width

ex: $2x \cdot 3x = 6x^2$



Volume: Multiply length, width, and height

ex: $2x \cdot 3x \cdot 4x = 24x^3$

Area: $\otimes$ "same"

$2x^2 \cdot 3x^2 = 6x^4$

Subtraction: $\ominus$ "different"

$2x^2 - 3x^2 = -x^2$

Multiplication: $\otimes$ "same"

$2x^2 \cdot 3x^2 = 6x^4$

Division: $\div$ "different"

$\frac{2x^2}{2} = x^2$

Equation: $=$ "same"

Algebra 2notetaking Guide

M Tight



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Holt McDougal Larson Algebra 2 Ron Larson,2006-04-13 Prentice Hall Algebra 2 Prentice-Hall Staff,2004-10-15

Prentice Hall Mathematics offers comprehensive math content coverage introduces basic mathematics concepts and skills and provides numerous opportunities to access basic skills along with abundant remediation and intervention activities

Algebra 2, Grades 9-12 Notetaking Guide Holt McDougal,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 Meaningful algebra learning remains out of reach for too many learners If we accept the premise shared by many leading thinkers organizations teachers researchers and parents algebra is for all students yet remains a civil rights issue Moses Cobb 2001 that is an opportunity for only some In this book I argue that adopting different lenses for what counts as meaningful algebra learning and teaching helps us to think differently Question How might teachers researchers and leaders realize meaningful algebra education for all students Answer Together with a diversity of resources and from a variety of perspectives or lenses on what counts as meaningful This book reflects my understandings of how to support meaningful algebra learning as informed by research and practice My goal is to support your journey in answering this question by making connections between research in algebra education teaching algebra and leading ambitious equitable antiracist visions for algebra education My approach in this book is intentionally highly visual with summaries in both textual and image form Teachers researchers leaders and parents are invited to engage in sketchnoting as a tool to vision and work together to realize opportunities for students to engage in meaningful mathematics learning **Algebra 1, Noteables: Interactive Study Notebook with Foldables**

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