

Algebra 1 Regents Study Guide

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

ADDITION: $\oplus$ "same"

- Only add **LIKE TERMS**

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

SUBTRACTION: $\ominus$ "different"

- Only subtract **LIKE TERMS**

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

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

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: $(2x + 3)(x + 2) =$ FOIL
 $2x^2 + 4x + 3x + 6 =$

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

• FOIL:
 $2x \begin{matrix} 3x & -5 \\ -2 & -3 \end{matrix} = 2x^2 - 10x - 4x + 15 =$
 $2x^2 - 14x + 15$

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

$x \begin{matrix} 2x^2 & 3x & -7 \\ 5x^2 & 15x & -35 \end{matrix} = 2x^3 + 3x^2 - 7x + 5x^2 + 15x - 35 =$
 $2x^3 + 8x^2 + 8x - 35$

INDIVIDUALS: $\otimes$ "different"

Different coefficients, different exponents
 ex: $2x^2 + 3x^2 - 4x^2 =$

$2x^2 - 4x^2 + 3x^2 = 6x^2 - 4x^2 - 2x^2$

$\frac{6}{2} - \frac{4}{2} - \frac{2}{2}$

$\frac{6-4-2}{2} = 0x^2$

Applications:

Perimeter: $\triangle$ up all sides

ex: $\begin{matrix} 3x \\ 2x \\ 4x \end{matrix} \Rightarrow 3x + 2x + 4x = 9x$

Area: $\square$ multiply length and width

ex: $\begin{matrix} 3x \\ 2x \end{matrix} \Rightarrow 3x \cdot 2x = 6x^2$



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

Volume: $\square$ multiply length, width, and height



$V = 2x(3x)(4x) =$ Distribute
 $24x^3 = 24x^3$

Area: $\square$

$A = 2x^2$

Perimeter: $\square$

$P = 10x$

Subtraction: $\ominus$

$10x - 2x = 8x$

Multiplication: $\otimes$

$2x \cdot 5x = 10x^2$

Division: $\div$

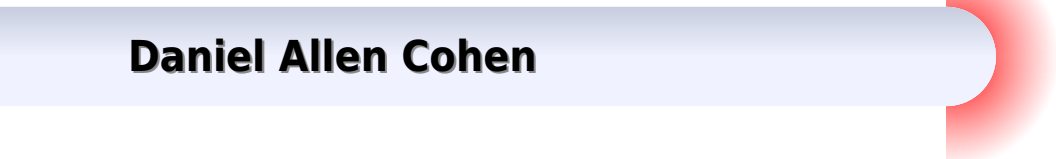
$\frac{10x^2}{2x} = 5x$

Equation: $=$

$2x + 3x = 5x$

Algebra 2notetaking Guide

Daniel Allen Cohen



Algebra 2notetaking Guide:

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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

Rules and examples in algebra. 2 pt. [and] Key Thomas Dalton,1874

Algebra 1, Noteables: Interactive Study Notebook with Foldables McGraw Hill,2007-04-03 Noteables™ Interactive Study Notebook with Foldables™ is a complete note taking system with guided note taking for every lesson in a workbook format Plus vocabulary builder and a chapter test preparation section are included for every chapter

Resources in Education,2001

K and W Guide to Colleges for Students with Learning Disabilities Or Attention Deficit Disorder Marybeth Kravets,Imy F. Wax,2003-09-02 Hundreds of thousands of students with learning disabilities head to college every year The challenges seem endless Aside from coping with difficulties in learning students and their families face the daunting process of seeking out the right school for their specific needs This indispensable resource includes Advice from specialists in the field of learning disabilities Learning disabled programs admission requirements and graduation policies Services available to learning disabled students at each college tutors note takers oral exams extended test time and more Policies and procedures regarding course waivers or substitutions Names phone numbers and email addresses of program administrators at each school Strategies for finding the right program for each student s needs In addition to the 338 schools profiled a Quick Contact Reference List provides essential program information for another 1 000 schools

Algebra Teams Daniel Allen Cohen,2005

The Unofficial, Unbiased Guide to the 331 Most Interesting Colleges 2005 Kaplan, Inc,2004-06-22 Engaging and informative The Unofficial Unbiased Guide to the 331 Most Interesting Colleges 2005 is a must

read reference for every college bound student

Algebra 2, Grades 9-12 Notetaking Guide Holt Mcdougal, 2006-09-05

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