

Simplifying Expressions

Simplifying expressions involves using the properties of operations to create equivalent algebraic expressions.

 **Example** Simplify $4(x + 7)$

This means '4 times the sum of x and 7.'

Repeated addition	Box method	Distributive property
$4(x + 7)$ $= (x + 7) + (x + 7) + (x + 7) + (x + 7)$ $= x + 7 + x + 7 + x + 7 + x + 7$ Combine the four x s and the four 7s: $4x + 28$	x $+7$  Multiply 4 times x and 4 times 7: $4x + 28$	 $4(x + 7)$ Distribute the 4 to the x and the 7: $4x + 28$

So $4(x + 7) = 4x + 28$

Algebra Simplifying Review

Kerry Kauffman



Algebra Simplifying Review:

Algebra Simplified - Beginner & Intermediate Kerry Kauffman, 2011-09-08 This book is intended to assist those taking a basic and intermediate high school algebra course or those interested in learning algebra. It focuses on examples illustrating each topic with step by step solutions for easy understanding. At the end of each section are review exercises. Each chapter concludes with key concepts a student should understand before proceeding to the next chapter. The book features more than 500 exercises to help a student master the concepts. Important tips for easier learning are presented throughout the book in bold print. Numerous graphs are given to help explain linear equations, systems of linear equations, inequalities, and rational and radical functions. The end of the book features a large selection of word problems and a glossary of important terms used throughout the book.

Algebra Simplified Intermediate & Advanced Kerry Kauffman, 2012-04-30 *Algebra Simplified Intermediate Advanced* picks up where my first book *Algebra Simplified Basic Intermediate* left off. It is intended to assist students in intermediate and advanced topics studied in a 2nd year high school algebra course or an intermediate college algebra course. The material is presented in textbook style format with each concept illustrated through numerous examples. The examples are solved methodically to explain each concept as simply as possible. Important notes and tips for easier learning are presented in bold throughout the book. The goal is provide readers sufficient detail in the examples so they can solve similar problems on their own which are presented at the end of each section. Topics covered include division and roots of polynomials, quadratic formula, completing the square, radicals, rational exponents, complex numbers, logarithms, conic sections, composition of functions, inverse functions, arithmetic and geometric sequences, and matrices.

80 Activities to Make Basic Algebra Easier Robert S. Graflund, 2001 With this sourcebook of reproducible puzzles and practice problems you can successfully reinforce first year algebra skills. Now revised to meet NCTM standards, this book contains more teaching tips, new calculator activities, and additional outdoor math activities. Secret codes, magic squares, cross number puzzles, and other self-correcting devices provide stimulating and fun practice. Chapters cover basic equations, equations and inequalities with real numbers, polynomials, factoring using fractions, graphing, and systems of linear equations and rational and irrational numbers. Worked out examples, drawings, and cartoons clarify key ideas. Answers are included.

CliffsNotes Basic Math & Pre-Algebra Quick Review, 2nd Edition Jerry Bobrow, 2011-04-25 Inside the Book: Preliminaries, Whole numbers, Decimals, Fractions, Percents, Integers and rationals, Powers, exponents and roots, Powers of ten and scientific notation, Measurements, Graphs, Probability and statistics, Number series, Variables, algebraic expressions and simple equations, Word problems, Review questions, Resource center, Glossary. Why CliffsNotes? Go with the name you know and trust. Get the information you need fast. Master the Basics Fast. Complete coverage of core concepts. Easy topic by topic organization. Access hundreds of practice problems at CliffsNotes.com.

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Math Tutor: Mastering Algebra Skills, Grades 4 - 12 Harold Torrance, 2004-01-02. Written for students who are struggling in math, *Math Tutor Mastering Algebra Skills* is an excellent tool for providing additional concept reinforcement. Each lesson in this book contains an Absorb section to instruct and simplify math concepts as well as an Apply section to help students grasp concepts on their own. Topics covered include fractions, order of operations, expressions and equations with variables, solving linear equations, polynomials and more. It is great for use in the classroom or at home and fully supports NCTM standards. Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms. Designed by leading educators, the product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts and character. Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards. Since 1977, Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources.

CliffsNotes Algebra I Practice Pack Mary Jane Sterling, 2010-02-08. Reviews algebra topics with problems and

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