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ALGEBRA in WORDS 2: MORE Hints, Strategies and Simple Explanations

Gregory P. Bullock

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This is the follow-up and companion to the first, #1 selling, ALGEBRA in WORDS: A Guide of Hints, Strategies and Simple Explanations (2014),
and the companion to WORD PROBLEMS DECODED (2015),

containing the next level of advanced topics, focusing on:
Absolute Values
Inequalities
Logs, Natural Logs, & Exponentials
Absolute Value Inequalities
Rational Exponents
Radicals
Quadratics & Parabolas
Scientific Notation
Variation & Proportionality
Circles

The central theme of this book is: COMMUNICATION, the key element that too many textbooks, instructors, and online videos lack. This book gives clarity to students to help them earn higher grades in classes such as:
ALGEBRA 2, INTERMEDIATE ALGEBRA, COLLEGE ALGEBRA, & PRE-CALCULUS, and some CALCULUS,
and even helps instructors and tutors communicate material more effectively and efficiently.

This book is presented in a way to be your own personal tutor, by giving you direct insight into topics. It contains detailed PROCEDURES and ANNOTATED EXAMPLES you won't find in any other book, study guide, or online video. This book is specifically designed to prevent confusion, address questions that many students have, and help you succeed with little effort and guesswork.

Another strength of this book is the way it helps you assimilate information, making learning easier. It is filled with click-able hyperlinks so you can easily jump to a related topic, example, or root definition. Keep it open to help you with your homework, use it to review material you missed in class, and use it to study for exams.

It contains the following, detailed chapters:
DEFINITIONS
SYMBOL & MEANING IN WORDS
INCLUSIVE vs. NONINCLUSIVE
INTERVAL & SET-BUILDER NOTATION
AND vs. OR
THE REAL ORDER OF OPERATIONS: GEMA
SOLVING (SIMPLE) INEQUALITIES

SOLVING ABSOLUTE VALUE EQUATIONS
SOLVING ABSOLUTE VALUE EQUATIONS W/ TWO ABSOLUTE VALUE GROUPS
SOLVING & GRAPHING A COMPOUND INEQUALITY
SOLVING & GRAPHING ABSOLUTE VALUE INEQUALITIES
ASSUMPTIONS for “AND” & “OR”
UNION vs. INTERSECTION
FUNCTIONS
TREND OF A GRAPH
GRAPHING LINEAR INEQUALITIES (in two variables)
SYSTEMS OF LINEAR INEQUALITIES
DIVIDING POLYNOMIALS USING LONG DIVISION
SPECIAL CASE: THE SUM OR DIFFERENCE OF TWO CUBES
CAN A PERFECT SQUARE ALSO BE A PERFECT CUBE?
DIFFERENT WAYS TO SIMPLIFY A RATIONAL EXPRESSION
SOLVING AN EQUATION with MANY FACTORS for a PARTICULAR VARIABLE
CONVERTING RADICALS & RATIONAL EXPONENTS
SIMPLIFYING EXPRESSIONS WITH RATIONAL EXPONENTS
FINDING THE DOMAIN OF EVEN-ROOT RADICALS
FINDING HIGHER POWERS OF i
EVALUATING ROOTS WITH VARIOUS FACTORS & EXPONENTS
MULTIPLYING BINOMIALS WITH RADICALS & i
RATIONALIZING THE DENOMINATOR
SOLVING RADICAL EQUATIONS
-with one, two, or three radicals
CONSTANTS & COEFFICIENTS DON'T MIX
COMPLETING THE SQUARE
RECOGNIZING A PERFECT SQUARE TRINOMIAL
WHERE DID THE QUADRATIC FORMULA COME FROM?
TRANSFORMING A NON-QUADRATIC EQUATION into a QUADRATIC EQUATION, then SOLVING
FACTORING TRINOMIALS USING THE ac/GROUPING METHOD
PROCEDURE FOR GRAPHING A QUADRATIC EQUATION (PARABOLA)
STANDARD FORM EQUATION OF A VERTICAL PARABOLA
QUADRATIC INEQUALITIES
CONSTRAINTS with “AND” & “OR”
RATIONAL INEQUALITIES
VARIATION & PROPORTIONALITY
CIRCLES
What are h and k?
Procedure for Making the Standard Form Equation of a Circle
Graphing a Circle
THE SIMILARITY OF THE PYTHAGOREAN THEOREM, THE DISTANCE FORMULA & THE CIRCLE EQUATION
SCIENTIFIC NOTATION: WHICH WAY DO YOU MOVE THE DECIMAL?
Expanded Form to Scientific Notation
Scientific Notation to Expanded Form
LOGS & NATURAL LOGS
GRAPHS OF LOGS
FMMs (Frequently Made Mistakes)

GENERAL TECHNIQUES FOR SUCCESS & IMPROVEMENT

Use this book to keep confusion and anxiety out of the equation.

Gregory P. Bullock is also the author of:

"COLLEGE SUCCESS: An Insider's Guide to Higher GRADES, More MONEY, and Better HEALTH" and

"CHEMISTRY IN WORDS: Constructing Lewis Dot Structures and 3D Molecular Geometry"

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Julie Gailey:

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