



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

Gregory P. Bullock

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

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**ALGEBRA** in WORDS 2: MORE Hints, Strategies and Simple Explanations Gregory P. Bullock 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 EOUATION 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

**OUADRATIC 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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