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Algebra 1 *2007 Edition*

College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The

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modular approach and richness of content ensure that the book meets the needs of a variety of courses.

College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to

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apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant

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amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort

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that need the prerequisite skills built into the course.

Chapter 1:

Prerequisites Chapter

2: Equations and

Inequalities Chapters

3-6: The Algebraic

Functions Chapter 3:

Functions Chapter 4:

Linear Functions

Chapter 5: Polynomial

and Rational Functions

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Chapter 6: Exponential
and Logarithm

Functions Chapters

7-9: Further Study in

College Algebra

Chapter 7: Systems of
Equations and

Inequalities Chapter 8:

Analytic Geometry

Chapter 9: Sequences,

Probability and

Counting Theory

The Homework

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Practice Workbook contains two worksheets for every lesson in the Student Edition. This workbook helps students: Practice the skills of the lesson, Use their skills to solve word problems.

"The text is suitable for a typical introductory algebra course, and was

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developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

McDougal Littell
Algebra 2

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Abstract Algebra
Holt McDougal Larson
Algebra 1: Chapter
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Volume 1, Chapters
1-6

Linear Algebra as an
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Algebra 1 Grades 9-12

This book takes
the reader on a
journey through

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the world of
college
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focusing on some
of the most
important
concepts and
results in the
theories of
polynomials, linear
algebra, real
analysis,
differential

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equations,
coordinate
geometry,
trigonometry,
elementary
number theory,
combinatorics,
and probability.
Preliminary
material provides
an overview of
common methods
of proof: argument

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by contradiction,
mathematical
induction,
pigeonhole
principle, ordered
sets, and
invariants. Each
chapter
systematically
presents a single
subject within
which problems
are clustered in

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each section according to the specific topic. The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world; many original contributions come from the

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Complete solutions to all problems are given at the end of the book. This second edition includes new

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sections on quad
ratic polynomials,
curves in the
plane, quadratic
fields,
combinatorics of
numbers, and
graph theory, and
added problems or
theoretical
expansion of
sections on
polynomials,

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matrices, abstract algebra, limits of sequences and functions, derivatives and their applications, Stokes' theorem, analytical geometry, combinatorial geometry, and counting strategies. Using

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the W.L. Putnam
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an inspiring
symbol to build an
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mathematics, the
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text
emphasizes

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the stiff
formalism of
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convey crucial
ideas in a stu
dent-friendly,

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accessible
manner. An
unusual
feature of the
text is the
systematic cha
racterization
of objects by
universal
mapping
properties,
rather than by

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constructions

whose

technical

details are

irrelevant.

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Common

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Weaknesses In

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material on
the subject,
such as
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theorems in
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the text
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theory,
discussing in
detail finite
fields,
cyclotomic
polynomials,
and cyclotomic
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book also
focuses on
broader

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background,
including
brief but
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discussions of
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theory and
equivalents of
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This introduction to
polynomial rings,
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gap in the literature

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theoretical and practical.

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Prentice Hall Math
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Workbook 2007

*This is an
introductory*

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textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular, the concept of proofs in the setting of linear algebra. Typically such a student would

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*have taken
calculus, though
the only
prerequisite is
suitable
mathematical
grounding. The
purpose of this
book is to bridge
the gap between
the more
conceptual and*

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*computational
oriented
undergraduate
classes to the
more abstract
oriented classes.
The book begins
with systems of
linear equations
and complex
numbers, then
relates these to*

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*the abstract
notion of linear
maps on finite-
dimensional
vector spaces, and
covers
diagonalization,
eigenspaces,
determinants, and
the Spectral
Theorem. Each
chapter concludes*

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*with a separate
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solutions for most
of the problems.
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concepts and
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algebra are
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*the at-risk student
can acquire
course content.*

*Multiple
representations of
concepts*

*Concepts and
skills are*

*introduced
algebraically,
graphically,
numerically, and*

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*verbally-often in
the same lesson to
help students
make the
connection and to
address diverse
learning styles.
Focused on
developing
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and skills Key
algebraic*

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concepts are introduced early and opportunities to develop conceptual understanding appear throughout the text, including in Activity Labs. Frequent and varied skill

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*practice ensures
student
proficiency and
success.*

*Computational
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High School Math
Connecticut
Amsco's
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*Putnam and
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*Matrix Algebra
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students and
teachers. The
California
Mathematics
Content*

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*Standards are
unpacked,
taught, and
then
reinforced
throughout our
program so
that teachers
can plan,
diagnose,
teach, assess,
and intervene*

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*with the
standards in
mind.*

*Changes in
society and
the workplace
require a
careful
analysis of
the algebra
curriculum
that we teach.*

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The curriculum, teaching, and learning of yesterday do not meet the needs of today's students. Lie groups has been an increasing

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*area of focus
and rich
research since
the middle of
the 20th
century. In
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Approach
through
Invariants and
Representations,
the*

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*author's
masterful
approach gives
the reader a
comprehensive
treatment of
the classical
Lie groups
along with an
extensive
introduction
to a wide*

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topics
associated
with Lie
groups:
symmetric
functions,
theory of
algebraic
forms, Lie
algebras,
tensor algebra*

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*and symmetry,
semisimple Lie
algebras,
algebraic
groups, group
representation
s, invariants,
Hilbert
theory, and
binary forms
with fields
ranging from*

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*pure algebra
to functional
analysis. By
covering
sufficient
background
material, the
book is made
accessible to
a reader with
a relatively
modest*

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background.
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information,
examples,
exercises are
all woven into
the text. This
unique
exposition is
suitable for a
broad*

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advanced under
graduates,
graduates,
mathematicians
in a variety
of areas from
pure algebra
to functional
analysis and
mathematical*

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physics.

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8/9

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Introduction

to Applied

Linear Algebra

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An Investigative
Approach