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# Absolute Value Equations And Inequalities Worksheet Answers

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*Absolute Value  
Equations And  
Inequalities Worksheet  
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## **Intermediate Algebra 2e**

### **Linear Systems, Inequalities, and Absolute Value**

#### **Algebra II Milliken Publishing Company**

This easy-to-use packet is chock full of stimulating activities that will jumpstart your students' interest in algebra while reinforcing major concepts. A variety of puzzles, games, and worksheets will challenge students as they solve and graph linear systems and inequalities. Students will also solve absolute value equations and inequalities. A special assessment page to help prepare students for standardized tests and an answer key are also included.

#### **College Algebra**

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

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 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 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

### **Algebra and Trigonometry**

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

### **The Complete Idiot's Guide to Algebra** *Penguin*

From the author of the highly successful *The Complete Idiot's Guide to Calculus* comes the perfect book for high school and college students. Following a standard algebra curriculum, it will teach students the basics so that they can make sense of their textbooks and get through algebra class with flying colors.

### **Effect of Using Multiple Representations on Student Success in Solving Rational, Radical, and**

### **Absolute Value Equations and Inequalities**

Because of an emerging body of research and a wealth of classroom experiences, the National Council of Teachers of Mathematics adopted representation as a process standard in 2000 to add to the four previously adopted (1989) process standards - problem solving, reasoning and proof, connections, and communication. The purpose of this study was to determine the effect of using multiple representations on learning to solve equations at the grade 11 level. The sources of data included three unit test scores for two different groups over a seven-week period prior to the treatment and a test score for the two groups after the treatment. Because of small class sizes (23 and 26), the statistical results need to be verified in future studies with larger groups. However, the results of this study indicate that students benefit from a multi-representational approach to equation solving. Students in the experimental group chose the graphing method of solving equations more often than the algebraic method and had more success with graphing compared to the algebraic approach. However, on some questions, students in the experimental group scored lower with the graphical method than the algebraic method. These results indicate that teachers need to weigh the benefits of teaching mathematical concepts with more than one representation against the costs of the learning demands placed on the student.

### **Beginning and Intermediate Algebra** *Createspace Independent Publishing Platform*

Get Better Results with high quality

content, exercise sets, and step-by-step pedagogy! Tyler Wallace continues to offer an enlightened approach grounded in the fundamentals of classroom experience in *Beginning and Intermediate Algebra*. The text reflects the compassion and insight of its experienced author with features developed to address the specific needs of developmental level students. Throughout the text, the author communicates to students the very points their instructors are likely to make during lecture, and this helps to reinforce the concepts and provide instruction that leads students to mastery and success. The exercises, along with the number of practice problems and group activities available, permit instructors to choose from a wealth of problems, allowing ample opportunity for students to practice what they learn in lecture to hone their skills. In this way, the book perfectly complements any learning platform, whether traditional lecture or distance-learning; its instruction is so reflective of what comes from lecture, that students will feel as comfortable outside of class as they do inside class with their instructor.

### **The Effect of Using Multiple Representations on Student Success in Solving Rational, Radical, and Absolute Value Equations and Inequalities**

Because of an emerging body of research and a wealth of classroom experiences, the National Council of Teachers of Mathematics adopted representation as a process standard in 2000 to add to the four previously adopted (1989) process standards - problem solving, reasoning and proof, connections, and communication. The

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### **Intermediate Algebra**

#### **Intermediate Algebra with Trigonometry** *Academic Press*

*Intermediate Algebra with Trigonometry* focuses on principles, operations, and approaches employed in intermediate algebra with trigonometry. The publication first elaborates on basic properties and definitions, first-degree equations and inequalities, and exponents and polynomials. Discussions focus on polynomials, sums, and differences, multiplication of polynomials, greatest common factor

and factoring by grouping, inequalities involving absolute value, equations with absolute value, and multiplication, division, and order of operation for real numbers. The manuscript then ponders on rational expressions, quadratic equations, and rational expressions and roots. Topics include equations quadratic in form, quadratic formula, completing the square, multiplication and division of complex numbers, equations with radicals, simplified form for radicals, multiplication and division of rational expressions, and addition and subtraction of rational expressions. The text takes a look at triangles, trigonometric identities and equations, introduction to trigonometry, and sequence and series, including arithmetic progressions, trigonometric functions, tables and calculators, sum and difference formulas, and the law of sines and cosines. The publication is a valuable reference for students and researchers interested in intermediate algebra with trigonometry.

**Mathskills Algebra 2** *Saddleback Educational Publishing*

MathSkills reinforces math in three key areas: pre-algebra, geometry, and algebra. These titles supplement any math textbook. Reproducible pages can be used in the classroom as lesson previews or reviews. The activities are also perfect for homework or end-of-unit quizzes. Units include: Real Numbers, Absolute Value Equations and Inequalities, and Matrices, Functions, Lines, and Systems, Quadratics and Ellipses, Exponents and Logarithms, Radical Expressions and Complex Numbers, Complex Solutions to Quadratic Equations, Cubic Equations, and Polynomials, Rational Expressions, Rational Functions, and Function

Operations, Sequences, Series, Trigonometry, and Statistics.

**Algebra 1 Common Core Student Edition Grade 8/9** *Prentice Hall*

**Algebra II Essentials For Dummies** *John Wiley & Sons*

Algebra II Essentials For Dummies (9781119590873) was previously published as Algebra II Essentials For Dummies (9780470618400). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Passing grades in two years of algebra courses are required for high school graduation. Algebra II Essentials For Dummies covers key ideas from typical second-year Algebra coursework to help students get up to speed. Free of ramp-up material, Algebra II Essentials For Dummies sticks to the point, with content focused on key topics only. It provides discrete explanations of critical concepts taught in a typical Algebra II course, from polynomials, conics, and systems of equations to rational, exponential, and logarithmic functions. This guide is also a perfect reference for parents who need to review critical algebra concepts as they help students with homework assignments, as well as for adult learners headed back into the classroom who just need a refresher of the core concepts. The Essentials For Dummies Series Dummies is proud to present our new series, The Essentials For Dummies. Now students who are prepping for exams, preparing to study new material, or who just need a refresher can have a concise, easy-to-understand review guide that covers an entire course by concentrating solely on the most important concepts. From

algebra and chemistry to grammar and Spanish, our expert authors focus on the skills students most need to succeed in a subject.

## Introduction to Absolute Value

### Easy Mathematics

**Introduction to Absolute value** This book includes a brief explanation part, example with solutions, practice problems, problem-solving strategies, multiple-choice questions with answer sheets and it has been prepared for the beginners to help them understand the basic concepts of absolute value. This book will facilitate skills in algebra. Inside are numerous lessons to assist you better understand the topic. These lessons are among many exercises to practice what you've learned, together with a whole answer key to test your work. Throughout this book, you'll learn the terms to assist you to understand algebra, and you'll expand your knowledge of the topic through dozens of sample problems and their solutions. With the teachings during this book, you'll find it easier than ever to understand concepts in algebra. RULES OF INEQUALITIES ABSOLUTE VALUE ABSOLUTE VALUE EQUATIONS ABSOLUTE VALUE INEQUALITIES TEST WITH SOLUTIONS QUESTIONS

## Springboard Mathematics

### Algebra 1

#### Geometric Algebra I *Lulu Press, Inc*

Need help with equations and inequalities of lines, two-variable linear absolute value, parabolas, and cubics? By using simple geometric shapes, this studyguide will help. 48 pages, 49 solved problems, all well-illustrated solutions.

## The Humongous Book of Algebra Problems *Penguin*

When the numbers just don't add up... Following in the footsteps of the successful The Humongous Books of Calculus Problems, bestselling author Michael Kelley has taken a typical algebra workbook, and made notes in the margins, adding missing steps and simplifying concepts and solutions. Students will learn how to interpret and solve 1000 problems as they are typically presented in algebra courses—and become prepared to solve those problems that were never discussed in class but always seem to find their way onto exams. Annotations throughout the text clarify each problem and fill in missing steps needed to reach the solution, making this book like no other algebra workbook on the market.

## Algebra

### A Combined Approach *Pearson College Division*

Elayn Martin-Gay's developmental math program is motivated by her firm belief that every student can succeed. Martin-Gay's focus on the student shapes her clear, accessible writing, inspires her constant pedagogical innovations, and contributes to the popularity and effectiveness of her video resources. This revision of Martin-Gay's series continues her focus on students and what they need to be successful. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. MyMathLab is not a self-paced technology and should only be purchased when required by an instructor. If you would like to purchase both the physical text and MyMathLab, search for: 0321978528 / 9780321978523 Algebra: A Combined

Approach Plus NEW MyMathLab with Pearson eText -- Access Card Package consists of: 0321431308 / 9780321431301 MyMathLab -- Glue-in Access Card 0321654064 / 9780321654069 MyMathLab Inside Star Sticker 032197753X / 9780321977533 Algebra: A Combined Approach Students, if interested in purchasing this title with MyMathLab, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information.

**Algebra I Toolkit: A Quick Reference**  
*Lulu.com*

**College Algebra Equations & Answers** *Quickstudy Reference Guides*

In college or college bound, the importance of the Algebra struggle is real. Whether math is second nature or a challenge this guide is your go-to for answers at your fingertips. This 6 page comprehensive guide offers clear and concise examples, explanations, and the graphs that go with them for review, study, or to quickly look up that concept that eludes you. For some students algebra is just the beginning of their college math career, others just need to make the grade. QuickStudy guides have proven their support of students and better grades at all levels for more than 25 years. Boost confidence for tests and grades for future success. 6 page laminated guide includes: Sets of Numbers Equations & Inequalities Linear Equations Absolute Value Equations Quadratic Equations Solving Systems of Equations Functions Domain & Range Operations with Functions Inverses Polynomials Radicals Rational Functions Direct, Joint & Inverse Variation Solving Rational Equations & Inequalities Exponential Functions Logarithmic

Functions

**Partial Differential Equations**

**Theory and Completely Solved Problems** *FriesenPress*

Provides more than 150 fully solved problems for linear partial differential equations and boundary value problems. Partial Differential Equations: Theory and Completely Solved Problems offers a modern introduction into the theory and applications of linear partial differential equations (PDEs). It is the material for a typical third year university course in PDEs. The material of this textbook has been extensively class tested over a period of 20 years in about 60 separate classes. The book is divided into two parts. Part I contains the Theory part and covers topics such as a classification of second order PDEs, physical and biological derivations of the heat, wave and Laplace equations, separation of variables, Fourier series, D'Alembert's principle, Sturm-Liouville theory, special functions, Fourier transforms and the method of characteristics. Part II contains more than 150 fully solved problems, which are ranked according to their difficulty. The last two chapters include sample Midterm and Final exams for this course with full solutions.

**Intermediate Algebra** *Academic Press*

Intermediate Algebra focuses on the principles, operations, and approaches involved in intermediate algebra. The book first elaborates on basic properties and definitions, first-degree equations and inequalities, and exponents and polynomials. Discussions focus on the greatest common factor and factoring by grouping, factoring trinomials, special factoring, equations with absolute value, inequalities involving absolute value,

formulas, first-degree equations, graphing simple and compound inequalities, and properties of real numbers. The text then takes a look at rational expressions, rational exponents and roots, and quadratic equations. Topics include solving quadratic equations by factoring, discriminant and the sum and product of solutions, multiplication and division of complex numbers, combinations of radical expressions, rational exponents, complex fractions, and multiplication and division of rational expressions. The manuscript elaborates on sequence and series, logarithms, relations and functions, and conic sections, including ellipses and hyperbolas, nonlinear systems, function and notation, algebra with functions, common logarithms and computations, and word problems. The publication is a dependable reference for students and researchers interested in intermediate algebra.

### **Final Exam Review: Intermediate Algebra** *microtextbooksdotcom*

Intermediate Algebra covers: Real Number Operations; Exponents ; Radicals; Fractional Exponents; Factoring Polynomials; Solving quadratic equations and applications; Graphs, Slopes, Intercepts, and Equations of Straight Lines; Graphs of Parabolas; Linear Inequalities; Compound Inequalities; Inequality Word Problems; Reduction, multiplication, division, and addition of algebraic fractions; Solving Fractional or Rational Equations; Solving Radical Equations; Variation and Variation Problems. Complex Numbers; Square roots of negative Numbers; addition, multiplication and division of complex Numbers; Absolute value equations; Absolute Value Inequalities; Logarithms; Logarithmic equations and Exponential

Equations; Graphs of exponential and logarithmic functions; Applications of exponential and logarithmic functions.

### **Intermediate Algebra** *Cengage Learning*

Larson IS student success. INTERMEDIATE ALGEBRA owes its success to the hallmark features for which the Larson team is known: learning by example, a straightforward and accessible writing style, emphasis on visualization through the use of graphs to reinforce algebraic and numeric solutions and to interpret data, and comprehensive exercise sets. These pedagogical features are carefully coordinated to ensure that students are better able to make connections between mathematical concepts and understand the content. With a bright, appealing design, the new Fifth Edition builds on the Larson tradition of guided learning by incorporating a comprehensive range of student success materials to help develop students' proficiency and conceptual understanding of algebra. The text also continues coverage and integration of geometry in examples and exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **Geometric Algebra I Part 1** *Lulu Press, Inc*

Using simple geometric shapes, a closer look will be taken of the following: A) the number Line, B) operations with integers C) long division, D) fractions, E) solving the following: linear equations, linear inequalities, absolute value linear equations, absolute value linear inequalities. Solving Linear Equations by Balancing Solving Linear Equations by

Change side Change sign Solving Linear Inequalities Solving Absolute Value Linear Equations Solving Absolute Value Linear Inequalities

### Context-based Instruction

#### A Study on Learning, Retention, and Affective Measures

This study examined how context-based instruction affects students' understanding, application, retention and motivation to learn absolute value, inequalities, and absolute value inequalities. The participants ( $N = 33$ ) were enrolled in an intermediate algebra course at a university in southwest Missouri and were grouped into a control ( $N = 17$ ) and treatment group ( $N = 16$ ). The participants completed a math pre-test, post-test and cumulative test. The control and treatment groups also completed a pre-test and post-test questionnaire to investigate how context-based instruction impacted affective measures. The study was unable to prove that context-based instruction significantly improved student learning or retention of solving linear inequalities, linear absolute value equations and absolute value inequalities. However, the study did show that context-based instruction significantly improved students' ability to apply linear inequalities and absolute value equations to real life situations when compared to process-based instruction. The pre-test and post-test questionnaires covering affective measures showed there was no significant difference in student attitude or confidence over inequalities or absolute values between the treatment and the control group. The questionnaires for this study also indicated no significant difference while

looking at the confidence of students to solve absolute value inequalities. The study did show that using context-based instruction increased students' interest in absolute value inequalities, while using process-based instruction had no change on students' interest on absolute value inequalities.

#### ACT Math For Dummies *John Wiley & Sons*

Multiply your chances of success on the ACT Math Test The ACT Mathematics Test is a 60-question, 60-minute subtest designed to measure the mathematical skills students have typically acquired in courses taken by the end of 11th grade, and is generally considered to be the most challenging section of the ACT. ACT Math For Dummies is an approachable, easy-to-follow study guide specific to the Math section, complete with practice problems and strategies to help you prepare for exam day. Review chapters for algebra, geometry, and trigonometry Three practice tests modeled from questions off the most recent ACT tests Packed with tips, useful information, and strategies ACT Math For Dummies is your one-stop guide to learn, review, and practice for the test!

#### Intermediate Algebra: Algebra Within Reach *Cengage Learning*

Larson IS student success. INTERMEDIATE ALGEBRA: ALGEBRA WITHIN REACH owes its success to the hallmark features for which the Larson team is known: learning by example, a straightforward and accessible writing style, emphasis on visualization through the use of graphs to reinforce algebraic and numeric solutions and to interpret data, and comprehensive exercise sets. These pedagogical features are carefully coordinated to ensure that students are

better able to make connections between mathematical concepts and understand the content. With a bright, appealing design, the new Sixth Edition builds on the Larson tradition of guided learning by incorporating a comprehensive range of student success materials to help develop students' proficiency and conceptual understanding of algebra. The text also continues coverage and integration of geometry in examples and exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Barron's Math 360: A Complete Study Guide to Pre-Calculus with Online Practice** *Simon and Schuster*

Barron's Math 360: Pre-Calculus is your complete go-to guide for everything pre-calculus. This comprehensive guide is an essential resource for: High school and college courses, Homeschooling, Virtual Learning. Learning pods. Inside you'll find: Comprehensive Content Review: Begin your study with the basic building blocks of pre-calculus and build as you go. Topics include, algebraic methods, functions and graphs, complex numbers, polynomial and rational functions, and much more. Effective Organization: Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs. Clear Examples and Illustrations: Easy-to-follow explanations, hundreds of helpful illustrations, and numerous step-by-step examples make this book ideal for self-study and rapid learning. Practice Exercises: Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts.

These checkup exercises, along with the answers and solutions, will help you assess your understanding and monitor your progress. Access to Online Practice: Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come.

**Study Guide for College Algebra** *Elsevier*

Study Guide for College Algebra is a supplemental material for the basic text, College Algebra. Its purpose is to make the learning of college algebra and trigonometry easier and enjoyable. The book provides detailed solutions to exercises found in the text. Students are encouraged to use the study guide as a learning tool during the duration of the course, a reviewer prior to an exam, a reference book, and as a quick overview before studying a section of the text. The Study Guide and Solutions Manual consists of four major components: basic concepts that should be learned from each unit, what was learned upon completion of each unit, solutions to selected problems, and a short chapter quiz, including the answers, covering the concepts and problem types. College level students will find the book very useful.

**A First Course in Differential Equations** *Springer Science & Business Media*

There are many excellent texts on elementary differential equations designed for the standard sophomore course. However, in spite of the fact that most courses are one semester in length, the texts have evolved into calculus-like presentations that include a large collection of methods and applications, packaged with student manuals, and Web-based

notes, projects, and supplements. All of this comes in several hundred pages of text with busy formats. Most students do not have the time or desire to read voluminous texts and explore internet supplements. The format of this differential equations book is different; it is a one-semester, brief treatment of the basic ideas, models, and solution methods.

Its limited coverage places it somewhere between an outline and a detailed textbook. I have tried to write concisely, to the point, and in plain language. Many worked examples and exercises are included. A student who works through this primer will have the tools to go to the next level in applying differential equations to problems in engineering, science, and applied mathematics. It can give some instructors, who want more concise coverage, an alternative to existing texts.

### **Elementary and Intermediate Algebra: Algebra Within Reach** *Cengage Learning*

Larson is student success. ELEMENTARY AND INTERMEDIATE ALGEBRA: ALGEBRA WITHIN REACH owes its success to the hallmark features for which the Larson team is known: learning by example, a straightforward and accessible writing style, emphasis on visualization through the use of graphs to reinforce algebraic and numeric solutions and to interpret data, and comprehensive exercise sets. These pedagogical features are carefully coordinated to ensure that students are better able to make connections between mathematical concepts and understand the content. With a bright, appealing design, the new Sixth Edition builds on the Larson tradition of guided learning by incorporating a comprehensive range of student success

materials to help develop students' proficiency and conceptual understanding of algebra. The text also continues coverage and integration of geometry in examples and exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **Absolute Value Workbook**

**Absolute value workbook** This book includes a brief explanation part, example with solutions and multiple-choice questions with answer sheet and it has been prepared for the beginners to help them understand the basic concepts of absolute value. RULES OF INEQUALITIES ABSOLUTE VALUE ABSOLUTE VALUE EQUATIONS ABSOLUTE VALUE INEQUALITIES TEST WITH SOLUTIONS QUESTIONS

### **Algebra and Trigonometry** *John Wiley & Sons*

Cynthia Young's Algebra & Trigonometry, Fourth Edition will allow students to take the guesswork out of studying by providing them with a clear roadmap: what to do, how to do it, and whether they did it right, while seamlessly integrating to Young's learning content. Algebra & Trigonometry, Fourth Edition is written in a clear, single voice that speaks to students and mirrors how instructors communicate in lecture. Young's hallmark pedagogy enables students to become independent, successful learners. Varied exercise types and modeling projects keep the learning fresh and motivating. Algebra & Trigonometry 4e continues Young's tradition of fostering a love for succeeding in mathematics.

### **Algebra I Essentials For Dummies**

*John Wiley & Sons*

Algebra I Essentials For Dummies (9781119590965) was previously published as Algebra I Essentials For Dummies (9780470618349). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. With its use of multiple variables, functions, and formulas algebra can be confusing and overwhelming to learn and easy to forget. Perfect for students who need to review or reference critical concepts, Algebra I Essentials For Dummies provides content focused on key topics only, with discrete explanations of critical concepts taught in a typical Algebra I course, from functions and FOILs to quadratic and linear equations. This guide is also a perfect reference for parents who need to review critical algebra concepts as they help students with homework assignments, as well as for adult learners headed back into the classroom who just need a refresher of the core concepts. The Essentials For Dummies Series Dummies is proud to present our new series, The Essentials For Dummies. Now students who are prepping for exams, preparing to study new material, or who just need a refresher can have a concise, easy-to-understand review guide that covers an entire course by concentrating solely on the most important concepts. From algebra and chemistry to grammar and Spanish, our expert authors focus on the skills students most need to succeed in a subject.

**Mymathlab for Squires/Wyrick Developmental Math: Prealgebra, Introductory Algebra & Intermediate Algebra -Access Card** *Pearson*

**ALERT:** Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. - John Squires and Karen Wyrick have drawn upon their successes in the classroom and the lab as inspiration for MyMathLab for Developmental Math: Prealgebra, Introductory Algebra & Intermediate Algebra. This new MyMathLab® eCourse offers students a guided learning path through content that has been organized into small, manageable mini-modules. This course structure includes pre-made tutorials and assessments for every topic in the course, giving instructors an eCourse that can be easily set up and customized for a variety of learning environments. This package consists of the MyMathLab access kit only, and does not include any supplementary material.

## Top Shelf

### **Advanced Algebra** *Walch Publishing*

Presents interesting problems that stimulate creative problem-solving. Provides valuable preparation exercises for success on standardized test. Meet national mathematics standards.

### **Elementary Differential Equations and Boundary Value Problems** *John Wiley & Sons*

This revision of the market-leading book maintains its classic strengths: contemporary approach, flexible chapter construction, clear exposition, and outstanding problems. Like its predecessors, this revision is written from the viewpoint of the applied mathematician, focusing both on the theory and the practical applications of Differential Equations as they apply to engineering and the sciences. Sound and Accurate Exposition of Theory--special attention is made to methods of solution, analysis, and approximation. Use of technology, illustrations, and problem sets help readers develop an intuitive understanding of the material. Historical footnotes trace development of the discipline and identify outstanding individual contributions.

## College Algebra

### **Building Concepts and Connections** *Cengage Learning*

Based on years of experience teaching and writing supplemental materials for

more traditional precalculus books, Reva Narasimhan takes a functions-focused approach to teaching and learning algebra and trigonometry concepts. This new series builds up relevant concepts using functions as a unifying theme, repeating and expanding on connections to basic functions. Visualization and analysis motivate the functions-based approach, enabling users to better retain the material for use in later calculus courses.

### **EBOOK: College Algebra with Trigonometry** *McGraw Hill*

Barnett, Ziegler, Byleen, and Sobecki's College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills, ideas, and problem solving as opposed to mathematical theory. The large number of pedagogical devices employed in this text will guide a student through the course. Integrated throughout the text, students and instructors will find Explore-Discuss boxes which encourage students to think critically about mathematical concepts. In each section, the worked examples are followed by matched problems that reinforce the concept being taught. In addition, the text contains an abundance of exercises and applications that will convince students that math is useful. A MathZone site featuring algorithmic exercises, videos, and other resources accompanies the text.