

# Intermediate Algebra A Graphing Approach

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for college algebra courses in which graphing technology plays an integral role college algebra a graphing approach 3 e is the undisputed leader in the field the text s unparalleled exercises motivating real life applications cutting edge design and innovative ancillaries and technology resources make it the most comprehensive program available interactive college algebra a graphing approach 2 0 cd rom provides detailed solutions to every odd exercise in the text self assessment testing a built in meridian graphing calculator emulator animations video clips simulations and editable graphs and the entire contents of the text for those who prefer a web based program internet college algebra a graphing approach 1 0 is an interactive text specific subscription web site offering all of the above features plus opportunities for interaction online with peers and instructors

mathematical reform is the driving force behind the organization and development of this new college algebra text the use of technology primarily graphing utilities is assumed throughout the text the development of each topic proceeds from the concrete to the abstract and takes full advantage of technology wherever appropriate the first major objective of this book is to encourage students to investigate mathematical ideas and processes graphically and numerically as well as algebraically proceeding in this way students gain a broader deeper and more useful understanding of a concept or process even though concept development and technology are emphasized manipulative skills are not ignored and plenty of opportunities to practice basic skills are present a brief look at the table of contents will reveal the importance of the function concept as a unifying theme the second major objective of this book is the development of a library of elementary functions including their important properties and uses having this library of elementary functions as a basic working tool in their mathematical tool boxes students will be able to

move into calculus with greater confidence and understanding in addition a concise review of basic algebraic concepts is included in appendix a for easy reference or systematic review the third major objective of this book is to give the student substantial experience in solving and modeling real world problems enough applications are included to convince even the most skeptical student that mathematics is really useful most of the applications are simplified versions of actual real world problems taken from professional journals and professional books no specialized experience is required to solve any of the applications

with a visual graphical approach that emphasizes connections among concepts this text helps readers make the most of their study time the authors show how different mathematical ideas are tied together through their zeros solutions and x intercepts theme side by side algebraic and graphical solutions calculator screens and examples and exercises by continually reinforcing the connections among various mathematical concepts as well as different solution methods the authors lead readers to the ultimate goal of mastery and success basic concepts of algebra graphs functions and models functions equations and inequalities polynomial and rational functions exponential and logarithmic functions systems of equations and matrices conic sections sequences series and combinatorics for all readers interested in college algebra

the authors help students see the math through their focus on functions visual emphasis side by side algebraic and graphical solutions real data applications and examples and exercises by remaining focused on today s students and their needs the authors lead students to mathematical understanding and ultimately success in class

reflecting the recent revolution in the teaching of mathematics this book incorporates a topic sequence and a presentation consistent with recent nctm standards the text starts with a college algebra topic and offers an emphasis on graphing and graphing calculators in addition the book s theme mathematical modelling and problem solving should

help readers develop the mathematical skills they'll need for problem solving and logical reasoning

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an introductory algebra text that emphasizes mathematical reasoning problem solving and real world applications using numerical algebraic and graphical models topics include problem solving techniques algebraic expressions polynomials linear and quadratic equations linear inequalities linear and nonlinear graphs systems of linear equations in two variables integer exponents proportions and radicals

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three components contribute to a theme sustained throughout the coburn herdlick series that of laying a firm foundation building a solid framework and providing strong connections in the graphs and models texts the authors combine their depth of experience with the conversational style and the wealth of applications that the coburn herdlick texts have become known for by combining a graphical approach to problem solving with algebraic methods students learn how to relate their mathematical knowledge to the outside world the authors use technology to solve the more true to life equation

geared toward helping students visualize and apply mathematics elementary and intermediate algebra graphs and models second edition is designed for a two semester course the authors make use of illustrations graphs and

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