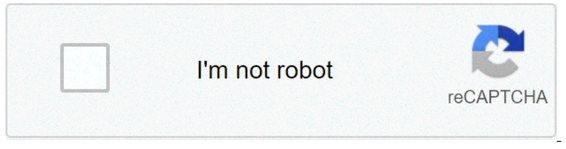


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This book is ideal for one- or two-semester or two- or three-quarter courses covering topics in college algebra, finite mathematics, and calculus for students in business, economics, and the life and social sciences.Haeussler, Paul, and Wood establish a strong algebraic foundation that sets this text apart from other applied mathematics texts, paving the way for students to solve real-world problems that use calculus. Emphasis on developing algebraic skills is extended to the exercises–including both drill problems and applications. The authors work through examples and explanations with a blend of rigor and accessibility. In addition, they have refined the flow, transitions, organization, and portioning of the content over many editions to optimize manageability for teachers and learning for students. The table of contents covers a wide range of topics efficiently, enabling instructors to tailor their courses to meet student needs. 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Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts.Pedagogy and Hallmark FeaturesApplications: An abundance and variety of applications for the intended audience appear throughout the book so that students see frequently how the mathematics they are learning can be used. These applications cover such diverse areas as business, economics, biology, medicine, sociology, psychology, ecology, statistics, earth science, and archaeology. Many of these applications are drawn from literature and are documented by references, sometimes from the Web. In some, the background and context are given in order to stimulate interest. However, the text is self-contained, in the sense that it assumes no prior exposure to the concepts on which the applications are based. (See, for example, Chapter 15, Section 7, Example 2.)Now Work Problem N: Throughout the text we have retained the popular Now Work Problem N feature. The idea is that after a worked example, students are directed toan end of section problem (labeled with a colored exercise number) that reinforces theideas of the worked example. This gives students an opportunity to practice what theyhave just learned. Because the majority of these keyed exercises are odd-numbered, studentscan immediately check their answer in the back of the book to assess their level ofunderstanding. The complete solutions to the odd-numbered exercises can be found inthe Student Solutions Manual.Cautions: Cautionary warnings are presented in very much the same way an instructor would warn students in class of commonly-made errors. These appear in the margin, along with other explanatory notes and emphases.Definitions, key concepts, and important rules and formulas: These are clearly stated and displayed as a way to make the navigation of the book that much easier for the student. (See, for example, the Definition of Derivative in Section 11.1)Review material: Each chapter has a review section that contains a list of important terms and symbols, a chapter summary, and numerous review problems. In addition, key examples are referenced along with each group of important terms and symbols.Inequalities and slack variables: In Section 1.2, when inequalities are introduced we point out that a _ b is equivalent to "there exists a non-negative number s such that a C s D b". The idea is not deep but the pedagogical point is that slack variables, key to implementing the simplex algorithm in Chapter 7, should be familiar and not distract from the rather technical material in linear programming.Absolute value: It is common to note that ja ¿ ·  Ready-to-Go Teaching Modules in the Instructor Resources section will be available in Spring 2018, and will help instructors efficiently make use of the available teaching tools for the toughest topics. Before-class assignments, in-class activities, and after-class assignments are provided for ease of use. Instructors can incorporate active learning into their course with the suggested activity ideas and clicker questions. 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Education Canada Country of Publication: US Dimensions (cm): 28.0 x 22.5  x 3.0 Weight (kg): 4.63 Edition Number: 14 PrefacexiPART I COLLEGE ALGEBRAReview of Algebra1(42)Sets of Real Numbers2(1)Some Properties of Real Numbers3(6)Exponents and Radicals9(5)Operations with Algebraic Expressions14(5)Factoring19(2)Fractions21(5)Equations, in Particular Linear Equations26(10)Quadratic Equations36(7)Applications and More Algebra43(36)Applications of Equations44(7)Linear Inequalities51(4)Applications of Inequalities55(3)Absolute Value58(4)Summation Notation62(4)Sequences66(13)Review76(1)Explore & Extend Variable-Quality Recording77(2)Functions and Graphs79(48)Functions80(7)Special Functions87(4)Combinations of Functions91(5)Inverse Functions96(3)Graphs in Rectangular Coordinates99(9)Symmetry108(5)Translations and Reflections113(2)Functions of Several Variables115(12)Review123(2)Explore & Extend A Taxing Experience!125(2)Lines, Parabolas, and Systems127(46)Lines128(7)Applications and Linear 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