



College Algebra: Concepts and Contexts

By James Stewart, Lothar Redlin, Saleem Watson, Phyllis Panman

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This text bridges the gap between traditional and reform approaches to algebra encouraging students to see mathematics in context. It presents fewer topics in greater depth, prioritizing data analysis as a foundation for mathematical modeling, and emphasizing the verbal, numerical, graphical and symbolic representations of mathematical concepts as well as connecting mathematics to real life situations drawn from the students' majors.

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Editorial Review

Review

"I'm excited. I want to do all of the explorations now. When can I get my copy to teach with?"

"It's a college algebra text that is built on real life examples and concepts. Students learn through using real data, hands on activities, and sections that slowly guide them to extensions of the previous concept. The explorations are wonderful."

"[This book] gets the students to think beyond the manipulations and see that the mathematics they are learning really does have a purpose."

"...These are exactly the type of examples that I look for when I review college algebra books for adoption! The applications included are also similar to problems discussed in prominent research articles in mathematics education..."

"Very promising. I like how the exercises are categorized (Fundamentals, Think About It, Skills, Contexts). I also like how material is not used and then forgotten but is used in upcoming sections..."

About the Author

The late James Stewart received his M.S. from Stanford University and his Ph.D. from the University of Toronto. He did research at the University of London and was influenced by the famous mathematician George Polya at Stanford University. Stewart was most recently Professor of Mathematics at McMaster University, and his research field was harmonic analysis. Stewart was the author of a best-selling calculus textbook series published by Cengage Learning, including CALCULUS, CALCULUS: EARLY TRANSCENDENTALS, and CALCULUS: CONCEPTS AND CONTEXTS, as well as a series of precalculus texts.

Lothar Redlin grew up on Vancouver Island, received a Bachelor of Science degree from the University of Victoria, and a Ph.D. from McMaster University in 1978. He subsequently did research and taught at the University of Washington, the University of Waterloo, and California State University, Long Beach. He is currently Professor of Mathematics at The Pennsylvania State University, Abington Campus. His research field is topology.

Saleem Watson received his Bachelor of Science degree from Andrews University in Michigan. He did graduate studies at Dalhousie University and McMaster University, where he received his Ph.D. in 1978. He subsequently did research at the Mathematics Institute of the University of Warsaw in Poland. He also taught at The Pennsylvania State University. He is currently Professor of Mathematics at California State University, Long Beach. His research field is functional analysis.

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