A Companion to Calculus

By Dennis C. Ebersole, Doris Schattschneider, Alicia Sevilla, Kay Somers

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Improve your algebra and problem-solving skills with A COMPANION TO CALCULUS! Every chapter in this companion provides the conceptual background and any specific algebra techniques you need to understand and solve calculus problems related to that topic. Verbal descriptions, diagrams, graphs, pictures, symbolic formulas, and numerical data are all used to reinforce communicating and understanding in different modes.

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Editorial Review

Review
0. Introduction. 1. Cartesian Coordinates. 2. Functions. 3. Companion to Limits. 4. Companion to Continuous Functions. 5. The Role of Infinity. 6. Problem Solving and Rates of Change. 7. Companion to Rules of Differentiation. 8. Review of Trigonometric Functions. 9. Companion to Implicit Differentiation. 10. Companion to Repeated Differentiation. 11. Companion to Related Rates. 12. Linear Approximations and Differentials. 13. Companion to Exponential Functions. 14. Companion to Inverse Functions. 15. Companion to Logarithmic Functions. 16. Companion to Extreme Values of a Function. 17. Companion to Curve Sketching. 18. Companion to Antidifferentiation. 19. Companion to Area and Riemann Sums. 20. Companion to the Definite Integral. Appendixes. Answers to Exercises. Index.

About the Author
Dennis Ebersole is Professor of Mathematics and Computer Science at Northampton Community College where he has taught since 1971. His interests include improving mathematics education in grades K¿12. Since 1989 he has administered several grant-funded programs for teachers of mathematics to strengthen their mathematical and pedagogical knowledge and skills. In addition to A COMPANION TO CALCULUS, he has authored or coauthored five other mathematics texts. He is a contributing writer for the revision of "Mathematics Standards Before Calculus" in BEYOND CROSSROADS, published by the American Mathematics Association of Two Year Colleges.

Doris Schattschneider holds a Ph.D. in mathematics from Yale University and taught mathematics at Moravian College for 34 years. She is the author of more than 40 articles, and author or editor of several books. She was Director for two FIPSE-funded projects that developed A COMPANION TO CALCULUS and mentored several campuses in developing a course integrating precalculus review with a first course in calculus. She has been active in the Mathematical Association of America (MAA) at all levels, and was editor of MATHEMATICS MAGAZINE 1981¿1985. In 1993 she received the national MAA Award for Distinguished Teaching of College or University Mathematics.

Alicia Sevilla has a Ph.D. in mathematics from Cornell University and is Professor of Mathematics at Moravian College, where she has taught for over 20 years. She participated in the two FIPSE projects that produced the COMPANION TO CALCULUS and mentored other institutions to adopt the integrated approach. She recently served as Chair of the Department of Mathematics and Computer Science, and was co-director of a National Science Foundation grant to develop and implement a quantitative reasoning course. She is an active member of the Mathematical Association of America, and serves as Coordinator of Student Chapters for the Eastern Pennsylvania and Delaware Section.

Kay Somers earned a Ph.D. in mathematics from Rensselaer Polytechnic Institute. She has worked in industry as a statistics and operations research analyst and is Professor of Mathematics at Moravian College where she has taught for 23 years. She recently served as Director of General Education at Moravian and was co-director for several federal grants. The most recent of these was a National Science Foundation grant to develop and implement a quantitative reasoning course. She is active in the Mathematical Association of America and serves on the MAA Classroom Resources Editorial Board. She received the Lindback Foundation Award for Excellence in Teaching at Moravian College in 1990.

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