

Calculus: Dynamic Mathematics

For AB
Second Edition

This textbook is an adaptation of the two-volume *Calculus: Dynamic Mathematics*. This book is specifically designed to support a comprehensive one-year high school calculus course, commonly called "Calculus AB."

This book consists of all topics included in the Advanced Placement Calculus AB course description, as well as a few more topics. The extra topics are chosen to emphasize certain aspects of calculus or to provide a more complete treatment of calculus.

Throughout, proofs of relevant theorems are presented. Exercises have been carefully chosen to expand the students' application of knowledge and skills.

Chuck Garner earned his Ph.D. in mathematics from the University of Johannesburg. He was a middle school math teacher for seven years before moving to the Rockdale Magnet School for Science and Technology in 2001. At RMSST, Dr. Garner has taught Calculus I, II, and III, Discrete Math, History of Math, Precalculus, Mathematics Technology, Mathematics of Industry and Government, and Mathematics Research. He is the sponsor of the RMSST Math Team and serves on the Executive Committee of the Georgia Council of Teachers of Mathematics and the Mu Alpha Theta Governing Council. He is the recipient of the 2003 GCTM Excellence in Teaching Mathematics Award, a 2008 and 2013 Presidential Award Finalist, the 2010 Dwight Love Award Winner, and a recipient of the 2011 MIT Inspirational Teacher Award, the 2012 Stanford University Teacher Award, the 2016 Yale Educator Award, and the 2016 John Neff Award from the Georgia Association of AP Math Teachers.



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