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# Thomas Calculus

## Multivariable

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Thomas' Calculus, Multivariable Plus MyMathLab  
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Thomas' Calculus

Student Solutions Manual, Multivariable for  
Thomas' Calculus

Thomas' Calculus (Multivariable Chps. 11-16)  
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'Thomas' Calculus helps you reach today's students by developing conceptual understanding while offering the right mix of relevant applications, conceptual exercises, and skills practice.

*Thomas' Calculus*  
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This text is designed for a three-semester or four-quarter calculus course (math, engineering, and science majors). Calculus hasn't changed, but your

students have. Today's students have been raised on immediacy and the desire for relevance, and they come to calculus with varied mathematical backgrounds. Thomas' Calculus: Early Transcendentals, Twelfth Edition, helps your students successfully generalize and apply the key ideas of calculus through clear and precise explanations, clean design, thoughtfully chosen examples, and superior exercise sets. Thomas offers the right mix of basic, conceptual, and challenging exercises, along with meaningful applications. This significant revision features more examples, more mid-level exercises, more figures

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This package includes a physical copy of Thomas' Calculus by Thomas, Weir and Hass, as well as access to MATLAB. This text is designed for a three-semester or four-quarter calculus course (math, engineering, and science majors).

Calculus hasn't changed, but your students have. Today's students have been raised on immediacy and the desire for relevance, and they come to calculus with varied mathematical backgrounds. Thomas' Calculus, Twelfth

Edition, helps your students successfully generalize and apply the key ideas of calculus through clear and precise explanations, clean design, thoughtfully chosen examples, and superior exercise sets. Thomas offers the right mix of basic, conceptual, and challenging exercises, along with meaningful applications. This significant revision features more examples, more mid-level exercises, more figures, and improved conceptual flow. "This is the complete text, which contains Chapters 1-16. Separate versions are available, covering just Single Variable topics (contains Chapters 1-11 and Multivariable topics (contains Chapters

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motivated. Strong exercise sets feature a wide range from skills problems to applied and theoretical problems. Writing exercises ask students to explore and explain various concepts and applications. A list of questions at the end of each chapter asks them to review and summarize what they have learned.

Technology exercises in each section ask students to use the calculator or computer when solving the problems. Computer Explorations offer exercises requiring a computer algebra system such as Maple or Mathematica.

Annotations within examples guide students through the problem solution and emphasize that each step in a mathematical

argument is justified.

New and updated features of this title

Many narrative clarifications and revisions have been made throughout the text. A new appendix on Determinants and Gradient Descent has been added, covering many topics relevant to students interested in Machine Learning and Neural Networks.

Many updated graphics and figures have been enhanced to bring out clear visualization and mathematical correctness. Many exercise instructions have been clarified, such as suggesting where the use of a calculator may be needed. Notation of inverse trig functions has been changed throughout the text to favor arcsin notation over  $\sin^{-1}$ , etc.



New advanced online chapters and sections are offered on Complex Functions, Fourier Series and Wavelets in the eText and MyLab Math course. Features of MyLab Math for the 15th Edition 100 additional Setup & Solve exercises have been selected by author Przemyslaw Bogacki. These exercises focus students on the process of problem solving by requiring them to set up their equations before moving on to the solution. Integrated Review quizzes and personalized homework are now built into all MyLab Math courses. No separate Integrated Review course is required. New online chapters and sections on Complex Functions,

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"Thomas' Calculus: Multivariable, Fifteenth Edition, continues its tradition of clarity and precision in calculus with a modern update to the popular text"--  
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