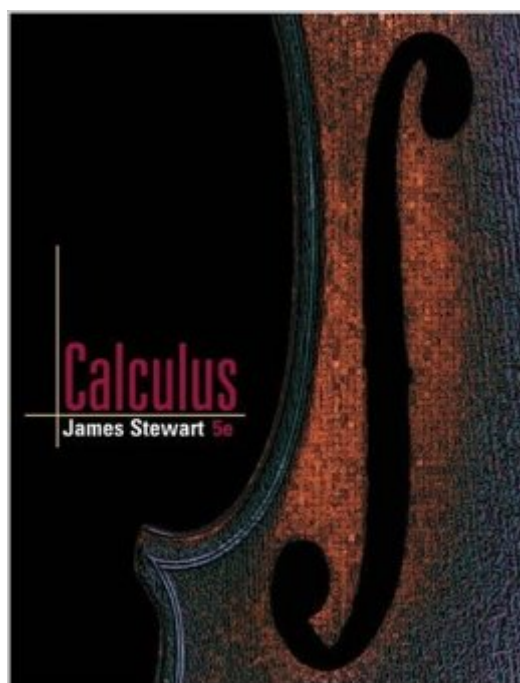


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# Calculus, 5th Edition



## Synopsis

Stewart's CALCULUS, Fifth Edition has the mathematical precision, accuracy, clarity of exposition and outstanding examples and problem sets that have characterized the first four editions. Stewart retains the focus on problem solving and the pedagogical system that has made the book a favorite of students and instructors in a wide variety of colleges and universities throughout the world. In this Fifth Edition, he has made hundreds of small improvements: new examples, additional steps in existing examples, updating of data in existing examples and exercises, new phrases and margin notes to clarify the exposition, references to other sources and web sites, redrawn art, and references to the TEC CD (Tools for Enriching Calculus). These refinements ensure that students and instructors have the best materials available. The number of pages in the book, however, remains unchanged from the 4th edition. Further support for students and instructors is now available through a vast array of supplementary material.

## Book Information

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## Customer Reviews

I took calculus over 20 years ago using a book by Howard Anton. Wanting to brush up on my skills, I recently took a Calc II and Calc III course for review. The book I used this time around was Stewart's "Calculus", 5th edition. I thought it would be a breeze, but trust me, after 20 years, it wasn't. Thinking there might be a more helpful calculus book out there I decided to see what else might be available. In my search I came across several other excellent calculus books, but after all was said and done, I have to say that the Stewart textbook is really one of the best. One of the of the

calculus books that almost always received a lot of praise was "Calculus With Analytic Geometry", by Ron Larson. In fact it received such high praises, I found a good deal on a used copy of the seventh edition and bought it to supplement the Stewart text. And I have to admit, I found the layout in the Larson text to be much better than the Stewart text. With Stewart, I was constantly having to highlight things and draw in boxes or add notes to show where examples ended and text began, or what an example was supposed to be teaching, or what specific step in an example was key. In the Larson text, all of this is nicely laid out. Each example is labeled to indicate what it is about, and colored text, annotations, arrows, etc. are used to clearly show where the important points are. When it came to explanations though, I did not find the Larson text to give any better explanations than the Stewart text. In fact, I often felt the Stewart text provided slightly better explanations. I would read the Stewart text and then read the Larson text and think, "Gee, I'm glad Stewart pointed this or that out". Overall though, the differences were minor.

There is a reason why the reviews of Stewart's Calculus textbook vary so widely. It's because Stewart is challenging. Some instructors favor Stewart because they are steeped enough in the Math to appreciate Stewart's applications and explanations of Calculus's uses in so many fields of study. But students who struggle with Math may have a difficult time with Stewart's rigor, and his algebraic/conceptual jumps. Let's review some specific qualities of this book:

- o Text: The text is pretty clearly written, with no errors I know of, but makes some conceptual leaps periodically.
- o Layout: The layout is excellent. It makes great use of consistent color coding and typographical conventions to identify classes of concepts. (I.e., It's always easy to spot and distinguish Examples, Proofs, Rules, and New Sections.) However, there are some algebraic manipulations that are sometimes combined into one line that should probably be expanded out and explained better. Even though students are expected to understand the algebra at this point, it's often crucial to explain why certain algebraic manipulations are being done. Usually there is a certain form of an expression or equation that is useful or desirable for a specific reason. Such reasons need to be explicated side-by-side with the steps to reach the desired form, instead of just skipping to the desired form (as sometimes is done).
- o Terminology: In some places Stewart talks about "constants" when what he really means are "scalars." There is a distinction between these two concepts that is important in other fields of math that could be confused. He also uses different letters to identify "any real number" or "a particular real number" than is standard in many other texts. This also could lead to confusion.

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