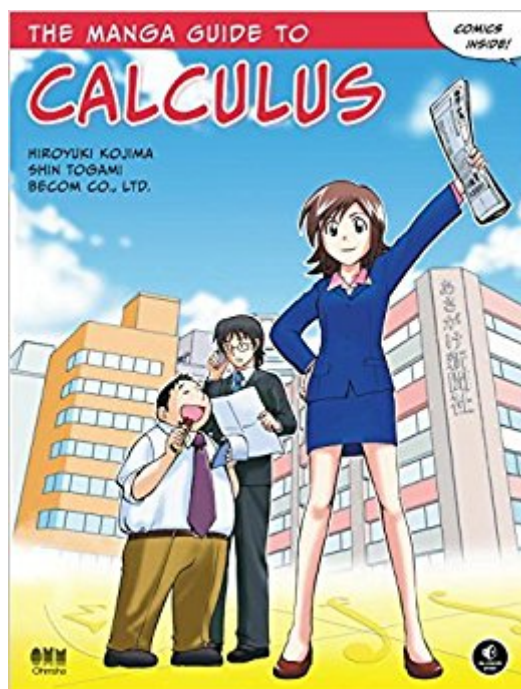


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# The Manga Guide To Calculus



## Synopsis

Noriko is just getting started as a junior reporter for the Asagake Times. She wants to cover the hard-hitting issues, like world affairs and politics, but does she have the smarts for it? Thankfully, her overbearing and math-minded boss, Mr. Seki, is here to teach her how to analyze her stories with a mathematical eye. In *The Manga Guide to Calculus*, you'll follow along with Noriko as she learns that calculus is more than just a class designed to weed out would-be science majors. You'll see that calculus is a useful way to understand the patterns in physics, economics, and the world around us, with help from real-world examples like probability, supply and demand curves, the economics of pollution, and the density of Shochu (a Japanese liquor). Mr. Seki teaches Noriko how to:

- Use differentiation to understand a function's rate of change
- Apply the fundamental theorem of calculus, and grasp the relationship between a function's derivative and its integral
- Integrate and differentiate trigonometric and other complicated functions
- Use multivariate calculus and partial differentiation to deal with tricky functions
- Use Taylor Expansions to accurately imitate difficult functions with polynomials

Whether you're struggling through a calculus course for the first time or you just need a painless refresher, you'll find what you're looking for in *The Manga Guide to Calculus*. This EduManga book is a translation from a bestselling series in Japan, co-published with Ohmsha, Ltd. of Tokyo, Japan.

## Book Information

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Age Range: 12 and up

Grade Level: 7 and up

## Customer Reviews

"The Manga Guide to Calculus would make an excellent supplement for anyone seeking a firmer intuitive grasp of the subject. It is entertaining, and it does an excellent job of exploring the meaning and relevance of calculus to the physical world." — Mathematical Association of America

Hiroyuki Kojima was born in 1958. He received his PhD in Economics from the Graduate School of Economics, Faculty of Economics, at the University of Tokyo. He has worked as a lecturer and is now an associate professor in the Faculty of Economics at Teikyo University in Tokyo, Japan. While highly appraised as an economist, he is also active as an essayist and has published a wide range of books on mathematics and economics at the fundamental, practical, and academic levels.

So, I have a fairly good background in higher Math, including a year of Calculus. I have been researching good math books for young people who are having problems or would benefit from a decent intro to the various upper level subjects before they become buried in equations. Concerning the Manga Guide, I find that a reader would greatly benefit from already having had at least a fair intro. to the Calculus in order to avoid becoming quickly swamped in otherwise meaningless equations. I found this book was created with good intentions but is rather muddled and skips a good deal of explanatory material. Difficult to follow if you are unable to fill in the gaps (again, requiring a background in the subject). I know Japanese and actually enjoy Manga but this simply isn't the answer to a potential student but more like a review (and not even a good review) of the subject. The book is not all together useless but I just don't think it accomplishes its objective. I tell you what: the best book of its kind is Calculus Made Easy, originally authored by Silvanus Thompson and edited by Martin Gardner. The book is over 250 pages but offers what I consider the best, most concise, detailed intro. to the Calculus I have been able to discover. It offers a logical, step-for-step instruction accompanied by plenty of easy but instructive exercises. Anyhoo, that's my advice.

Textbook writing is not something that the above average mathematician is readily capable of from trying to discern the meaning of some of the instructions in some of my text books. Having a source that approaches instruction from a different direction can provide a hint that may have been missing in a more specific text. That is where "The Manga Guide to Calculus" can be helpful. Utilizing the

visual language of the comic/manga style, it is easier to visualize some very complex mathematical principles that we usually only envision in the abstract. Definitely a must for the struggling Calculus student.

I am a fan of manga so this is a good book and very interesting book. This book actually lead people to learn calculus a proper way, because I think if people just study things like calculus for tests, just memorize thing to pass the exams, what role does calculus exactly play in our lives. I recommended this book for all those who know how to read manga and want to know a little bit about calculus. HTH - Hope this Help :)

This book does a good job of explaining core concepts in an interesting and much more friendly way than most textbooks. It doesn't go into the details as deeply as a dry textbook might, but it does a very good job of explaining what the equations are actual doing, from a real world (manga?) perspective, something that most textbooks ignore completely. This book will likely help you if you are having conceptual hangups in your calculus class, but don't expect it to replace your text book, it simply doesn't provide that kind of bulk material.

Math teacher, here. I have never seen a kid pick up a math book "just because", but all of the kids that come to our house and see this book will pick it up and just start reading. It is written like a comic book, which makes learning fun. I still do not see them pick up a pencil to try the activities, but they at least start asking questions.

Purchased this book for a anime addicted teenager who is struggling in Calculus. We had tried other Calculus help books in the past, but she wasn't interested in them and they did not help. Since she is very interested in reading Manga (she chose the words anime addicted), this book captured her interest and helped to explain topics that were difficult for her to grasp. She has since raised her grade in the class.

It is an excellent and enjoyable way of learning calculus for the first time or as a quick review. Explanations are very clear and the exercises - with solutions - are a good way to fix the concepts. May be there could be more exercises with solutions.

Got this book for my nerdy boyfriend, a college student currently taking calculus. He thought it was

hilarious. He had seen the book before and really wanted it, so I got it for him as a birthday present. The book is wonderfully illustrated and very funny. He said it will help him a lot.

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