

Preface for Students

You are about to immerse yourself in serious mathematics, with an emphasis on attaining a deep understanding of the definitions, theorems, and proofs related to measure, integration, and real analysis. This book aims to guide you to the wonders of this subject.

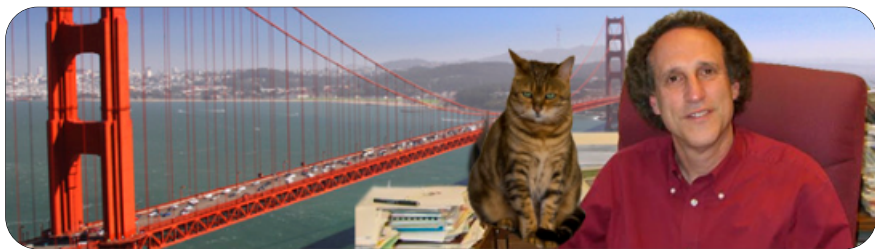
You cannot read mathematics the way you read a novel. If you zip through a page in less than an hour, you are probably going too fast. When you encounter the phrase *as you should verify*, you should indeed do the verification, which will usually require some writing on your part. When steps are left out, you need to supply the missing pieces. You should ponder and internalize each definition. For each theorem, you should seek examples to show why each hypothesis is necessary. Discussions with other students should help.

As a visual aid, definitions are in yellow boxes and theorems are in blue boxes. Each theorem has a descriptive name.

Please check the website below for additional information about the book. Your suggestions for improvements, comments, and corrections are most welcome. If even a comma is wrong, then I want to know about it and to fix it.

Best wishes for success and enjoyment in learning measure, integration, and real analysis!

Sheldon Axler
Mathematics Department
San Francisco State University
San Francisco, CA 94132, USA



website: measure.axler.net

e-mail: measure@axler.net

Twitter: @AxlerLinear