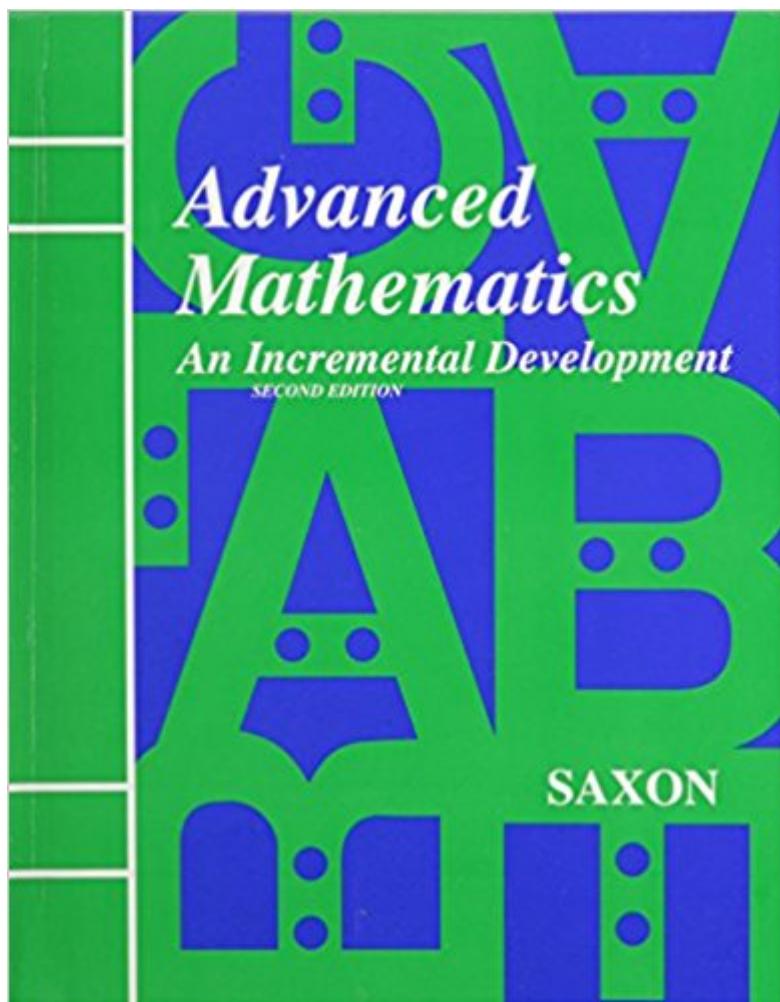


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# Advanced Mathematics: An Incremental Development, 2nd Edition



## **Synopsis**

Advanced Mathematics fully integrates topics from algebra, geometry, trigonometry, discrete mathematics, and mathematical analysis. Word problems are developed throughout the problem sets and become progressively more elaborate. With this practice, high-school level students will be able to solve challenging problems such as rate problems and work problems involving abstract quantities. Conceptually oriented problems that help prepare students for college entrance exams (such as the ACT and SAT) are included in the problem sets.

## **Book Information**

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## **Customer Reviews**

I have been using Saxon mathematics for 15 years, first as a 5th-12th grade student and more recently as a tutor. This program is excellent and like one of the other reviewers I can agree that even my "average" Saxon students have significantly better mathematics skills than those students using other programs. I began using Saxon math in 5th grade. Prior to that I used a typical "learn and drill" method. A new concept was taught and drilled for 20+ problems and then the instruction moved on to another topic. By the time I reached an end of unit exam I had forgotten the early material. Then in 5th grade we changed curriculums. I didn't become a "math lover" overnight. In fact, although my math skills improved, I adamantly hated math all the way through junior high. Then I began algebra. By the end of Saxon's algebra 2 textbook I loved algebra and was making high A's in my homework. A couple of years after high school I was invited to begin tutoring math at a private school. At this point I reviewed my Saxon Algebra 1 and Algebra 2 eventually going on to study Advanced Mathematics for the fun of it. I would spend 2-3 hours a day studying math and

loving every minute of it. This independant study was 2 1/2 years ago. I recently decided to attend college as a math major. Last semester I passed Calculus I near or at the top of all the Cal I classes combined. My Saxon skills gave me the tools I needed to study well and grasp rather abstract concepts. The one area that has concerned me is trigonometry. The Advanced Mathematics covered the topic quite thoroughly, however Calculus requires a lot of trig and it has been so long since I studied Advanced Math I've been afraid my professors will "spring" something on me I don't remember.

**ABOUT THE SOLUTIONS MANUAL** The 'Solutions manual' can be a useful reference to anyone not fully comfortable with the topic and I didn't think I needed one until we did 'Algebra 1' last year. For 'Algebra 2' and now 'Advanced Math' I felt that I HAD to have it. The manual is needed because the 'normal' kit would only have 'full solutions' for the tests but the problem Answer Key book only has the correct answers for the practice and the problem sets but it does NOT show the step-by-step. The manual shows the steps you take to solve every single problem set question with the cautionary note from the authors what there is often more than one way to get to the right answer. However, the Solutions Manual tries to stay as close as possible to the methods and procedures as presented in the textbook. The early solutions to a particular type of problem show every single step while later solutions omit the simple steps. I am very happy for ordering the Solutions Manual. Even though I don't expect to use it very often, it's reassuring to have it handy, just in case. This book, while not a 'must have' component of an 'Advanced Mathematics kit' gets 5-stars for thoroughness and for 'being there when I need it'. **NOTES OF CAUTION** There are TWO main things you must check and make sure that are right before you order:- Be aware that this is NOT an essential component of an 'Advanced Mathematics Kit' even though it may help.- You will only need ONE copy, no matter how many students you may have. This should be mostly for teacher use.

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