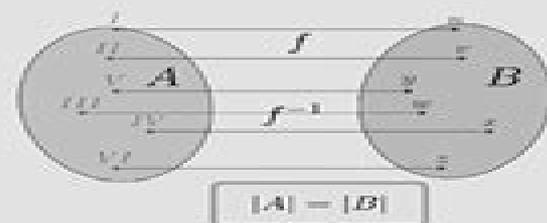
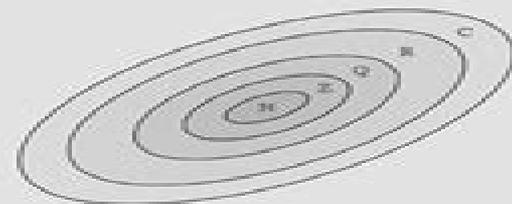
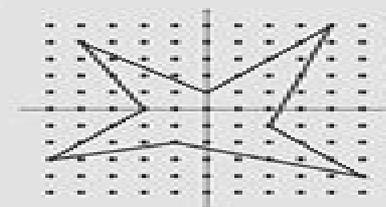




# A Bridge to Advanced Mathematics

From Natural to  
Complex Numbers

Sebastian M. Cioabă  
Werner Linde



# Bridge To Advanced Mathematics

**Sebastian M. Cioabă, Werner Linde**



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Bridge to Advanced Mathematics Ronald A. Morash, 1987-01-01 *MAT 310 BRIDGE TO ADVANCED MATHEMATICS* Richard Hammack, A Bridge to Higher Mathematics Valentin Deaconu, 2016-12-19 A Bridge to Higher Mathematics is more than simply another book to aid the transition to advanced mathematics. The authors intend to assist students in developing a deeper understanding of mathematics and mathematical thought. The only way to understand mathematics is by doing mathematics. The reader will learn the language of axioms and theorems and will write convincing and cogent proofs using quantifiers. Students will solve many puzzles and encounter some mysteries and challenging problems. The emphasis is on proof. To progress towards mathematical maturity, it is necessary to be trained in two aspects: the ability to read and understand a proof and the ability to write a proof. The journey begins with elements of logic and techniques of proof, then with elementary set theory, relations, and functions. Peano axioms for positive integers and for natural numbers follow in particular mathematical and other forms of induction. Next is the construction of integers, including some elementary number theory. The notions of finite and infinite sets, cardinality of counting techniques, and combinatorics illustrate more techniques of proof. For more advanced readers, the text concludes with sets of rational

numbers the set of reals and the set of complex numbers Topics like Zorn's lemma and the axiom of choice are included More challenging problems are marked with a star All these materials are optional depending on the instructor and the goals of the course

**Bridge to Abstract Mathematics** Ronald P. Morash,1991 This text is designed for students who are preparing to take a post calculus abstract algebra and analysis course Morash concentrates on providing students with the basic tools sets logic and proof techniques needed for advanced study in mathematics The first six chapters of the text are devoted to these basics and these topics are reinforced throughout the remainder of the text Morash guides students through the transition from a calculus level courses upper level courses that have significant abstract mathematical content

**Bridge to Higher Mathematics** Sam Vandervelde,2010 This engaging math textbook is designed to equip students who have completed a standard high school math curriculum with the tools and techniques that they will need to succeed in upper level math courses Topics covered include logic and set theory proof techniques number theory counting induction relations functions and cardinality

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