



A Discrete Transition to Advanced Mathematics

Second Edition

Bettina Richmond
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AMS

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SOCIETY

A Discrete Transition To Advanced Mathematics Solutions

Jin-Ying Zhang



A Discrete Transition To Advanced Mathematics Solutions:

A Discrete Transition to Advanced Mathematics Bettina Richmond, Thomas Richmond, 2009 As the title indicates this book is intended for courses aimed at bridging the gap between lower level mathematics and advanced mathematics The text provides a careful introduction to techniques for writing proofs and a logical development of topics based on intuitive understanding of concepts The authors utilize a clear writing style and a wealth of examples to develop an understanding of discrete mathematics and critical thinking skills While including many traditional topics the text offers innovative material throughout Surprising results are used to motivate the reader The last three chapters address topics such as continued fractions infinite arithmetic and the interplay among Fibonacci numbers Pascal's triangle and the golden ratio and may be used for independent reading assignments The treatment of sequences may be used to introduce epsilon delta proofs The selection of topics provides flexibility for the instructor in a course designed to spark the interest of students through exciting material while preparing them for subsequent proof based courses

A Discrete Transition to Advanced Mathematics Bettina Richmond, Thomas Richmond, 2023-08-25 This textbook bridges the gap between lower division mathematics courses and advanced mathematical thinking Featuring clear writing and appealing topics the book introduces techniques for writing proofs in the context of discrete mathematics By illuminating the concepts behind techniques the authors create opportunities for readers to sharpen critical thinking skills and develop mathematical maturity Beginning with an introduction to sets and logic the book goes on to establish the basics of proof techniques From here chapters explore proofs in the context of number theory combinatorics functions and cardinality and graph theory A selection of extension topics concludes the book including continued fractions infinite arithmetic and the interplay among Fibonacci numbers Pascal's triangle and the golden ratio *A Discrete Transition to Advanced Mathematics* is suitable for an introduction to proof course or a course in discrete mathematics Abundant examples and exercises invite readers to get involved and the wealth of topics allows for course customization and further reading This new edition has been expanded and modernized throughout New features include a chapter on combinatorial geometry a more in depth treatment of counting and over 365 new exercises

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