

My First Math An Introduction To Math Symbol

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this textbook is designed for an introduction to proofs course organized around the themes of number and space concepts are illustrated using both geometric and number examples while frequent analogies and applications help build intuition and context in the humanities arts and sciences sophisticated mathematical ideas are introduced early and then revisited several times in a spiral structure allowing students to progressively develop rigorous thinking throughout the presentation is enlivened with whimsical illustrations apt quotations and glimpses of mathematical history and culture early chapters integrate an introduction to sets logic and beginning proof techniques with a first exposure to more advanced mathematical structures the middle chapters focus on equivalence relations functions and induction carefully chosen examples elucidate familiar topics such as natural and rational numbers and angle measurements as well as new mathematics such as modular arithmetic and beginning graph theory the book concludes with a thorough exploration of the cardinalities of finite and infinite sets and in two optional chapters brings all the topics together by constructing the real numbers and other complete metric spaces designed to foster the mental flexibility and rigorous thinking needed for advanced mathematics introduction to mathematics suits either a lecture based or

flipped classroom a year of mathematics statistics or computer science at the university level is assumed but the main prerequisite is the willingness to engage in a new challenge

providing essential guidance and background information about teaching mathematics this book is intended particularly for teachers who do not regard themselves as specialists in mathematics it deals with issues of learning and teaching including the delivery of content and the place of problems and investigations difficulties which pupils encounter in connection with language and symbols form important sections of the overall discussion of how to enhance learning the curriculum is considered in brief under the headings of number algebra shape and space and data handling and special attention is paid to the topic approach and mathematics across the curriculum the assessment of mathematical attainment is also dealt with thoroughly teachers will find this book an invaluable companion in their day to day teaching

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