

Mathematical Thinking And Writing

M. Ann Dirkes

Mathematical Thinking And Writing:

Mathematical Thinking and Writing Randall Maddox, 2001-07-24 The ability to construct proofs is one of the most challenging aspects of the world of mathematics It is essentially the defining moment for those testing the waters in a mathematical career Instead of being submerged to the point of drowning readers of Mathematical Thinking and Writing are given guidance and support while learning the language of proof construction and critical analysis Randall Maddox guides the reader with a warm conversational style through the task of gaining a thorough understanding of the proof process and encourages inexperienced mathematicians to step up and learn how to think like a mathematician A student s skills in critical analysis will develop and become more polished than previously conceived Most significantly Dr Maddox has the unique approach of using analogy within his book to clarify abstract ideas and clearly demonstrate methods of mathematical A Transition to Abstract Mathematics Randall Maddox, 2008-10-13 Constructing concise and correct proofs precision is one of the most challenging aspects of learning to work with advanced mathematics Meeting this challenge is a defining moment for those considering a career in mathematics or related fields A Transition to Abstract Mathematics teaches readers to construct proofs and communicate with the precision necessary for working with abstraction It is based on two premises composing clear and accurate mathematical arguments is critical in abstract mathematics and that this skill requires development and support Abstraction is the destination not the starting point Maddox methodically builds toward a thorough understanding of the proof process demonstrating and encouraging mathematical thinking along the way Skillful use of analogy clarifies abstract ideas Clearly presented methods of mathematical precision provide an understanding of the nature of mathematics and its defining structure After mastering the art of the proof process the reader may pursue two independent paths The latter parts are purposefully designed to rest on the foundation of the first and climb quickly into analysis or algebra Maddox addresses fundamental principles in these two areas so that readers can apply their mathematical thinking and writing skills to these new concepts From this exposure readers experience the beauty of the mathematical landscape and further develop their ability to work with abstract ideas Covers the full range of techniques used in proofs including contrapositive induction and proof by contradiction Explains identification of techniques and how they are applied in the specific problem Illustrates how to read written proofs with many step by step examples Includes 20% more exercises than the first edition that are integrated into the material instead of end of chapter Mathematical Thinking and Writing Randall Maddox, 2002 The ability to construct proofs is one of the most challenging aspects of the world of mathematics It is essentially the defining moment for those testing the waters in a mathematical career Instead of being submerged to the point of drowning readers of Mathematical Thinking and Writing are given guidance and support while learning the language of proof construction and critical analysis Randall Maddox guides the reader with a warm conversational style through the task of gaining a thorough understanding of the proof process and encourages

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