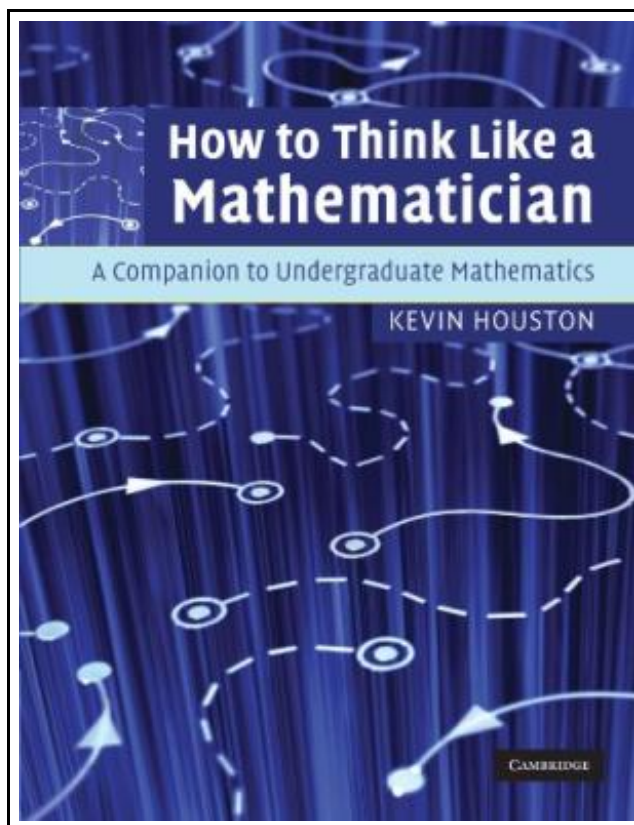


How to Think Like a Mathematician: A Companion to Undergraduate Mathematics



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Reviews

This ebook could be worthy of a read through, and far better than other. I am quite late in start reading this one, but better then never. I realized this publication from my dad and i advised this publication to learn.

(Stefan Von)

HOW TO THINK LIKE A MATHEMATICIAN: A COMPANION TO UNDERGRADUATE MATHEMATICS



Cambridge University Press, New Delhi, India, 2009. Paperback. Book Condition: New. First Edition. Looking for a head start in your undergraduate degree in mathematics? Maybe you've already started your degree and feel bewildered by the subject you previously loved? Don't panic! This friendly companion will ease your transition to real mathematical thinking. Working through the book you will develop an arsenal of techniques to help you unlock the meaning of definitions, theorems and proofs, solve problems, and write mathematics effectively. All the major methods of proof - direct method, cases, induction, contradiction and contrapositive - are featured. Concrete examples are used throughout, and you'll get plenty of practice on topics common to many courses such as divisors, Euclidean algorithms, modular arithmetic, equivalence relations, and injectivity and surjectivity of functions. The material has been tested by real students over many years so all the essentials are covered. With over 300 exercises to help you test your progress, you'll soon learn how to think like a mathematician. Contents Preface Part I. Study Skills For Mathematicians: 1. Sets and functions 2. Reading mathematics 3. Writing mathematics I 4. Writing mathematics II 5. How to solve problems Part II. How To Think Logically: 6. Making a statement 7. Implications 8. Finer points concerning implications 9. Converse and equivalence 10. Quantifiers For all and There exists 11. Complexity and negation of quantifiers 12. Examples and counterexamples 13. Summary of logic Part III. Definitions, Theorems and Proofs: 14. Definitions, theorems and proofs 15. How to read a definition 16. How to read a theorem 17. Proof 18. How to read a proof 19. A study of Pythagoras Theorem Part IV. Techniques of Proof: 20. Techniques of proof I: direct method 21. Some common mistakes 22. Techniques of proof II: proof by cases 23. Techniques of proof...



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