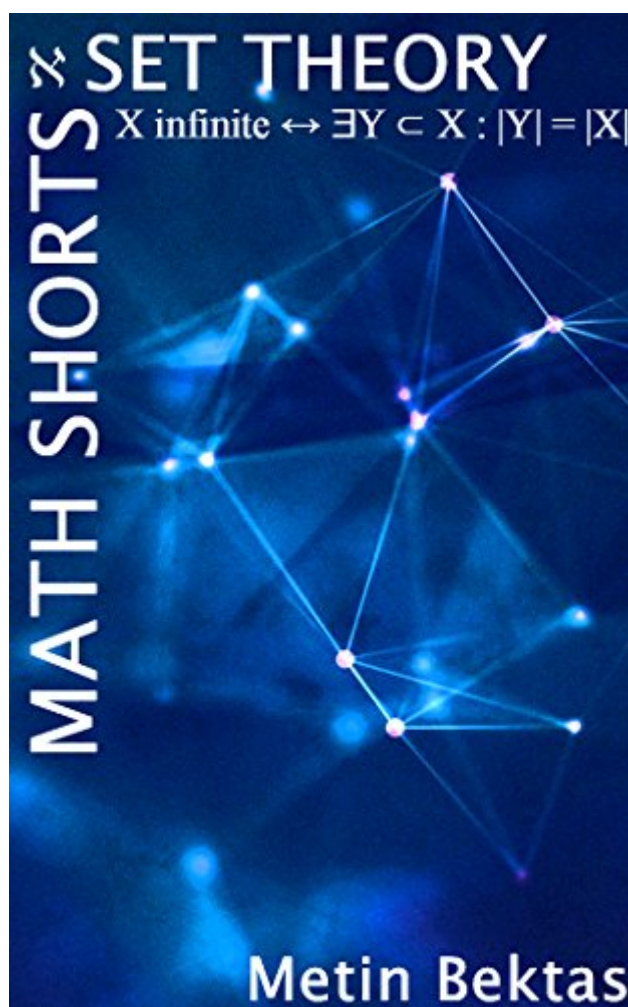


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## Math Shorts - Set Theory



## Synopsis

Set theory is the foundation of abstract mathematical reasoning. This book allows the beginner to delve into this fascinating field by explaining the concepts, operations and symbols in a down-to-earth manner. Plenty of exercises with solutions, proofs and illustrations help to make the learning experience more vivid. From the basics of sets, relations and functions, the text takes the reader all the way to one of the most exciting topics in mathematics: the cardinality of infinite sets. From the author of the "Math Shorts" series, "Great Formulas Explained", "Statistical Snacks", and many more. Important note: to enjoy the book, the reader should be familiar with the basics of high school algebra (check out the free e-book "Algebra - The Very Basics" for this) and should have a passion for abstract thinking.

## Book Information

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## Customer Reviews

This is a good book for an introductory course on the subject. It contains the basic topics as well as problems with solutions to test the readers' understanding of the material. The delivery is slow and gentle. It won't replace your college textbook, but it's an easy-to-understand summary of the basics.

This book is riddled with errors. Omits 2 as a prime, lists 175 as the second natural number divisible by 5 and 7 (skipping over 70, 105, and 140), claims the empty set is an element of every set. I read 2 sections and found these errors. Buying this book to learn set theory would be akin to trying to learn physics from Wile E. Coyote.

This book starts with a good section on notation, with exercises, enabling the reader to become fluent with the various symbols before getting into the theory. The world is full of \$100+ math texts which, despite having sections dedicated to notation, omit explanation of frequently used symbols, and which, for the symbols included, make no mention of how they should be expressed in words. Nice to see this for a change.

Easy to read. Concepts are explained clearly and the examples allow you to work through applications of the theory. Highly recommend as a stepping stone into topology or more advanced set theory work.

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