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### ~~An Introduction to Mathematical Reasoning by Peter J. Eccles~~

5.0 out of 5 stars Best introduction to mathematical reasoning. Reviewed in the United States on March 28, 2011. Verified Purchase. This is hands down the best introduction to logic and mathematical reasoning in my current library. I highly recommend this to anyone who needs to learn the basics of mathematical proofs because the author takes ...

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We know the identity  $t^{m+1} = (t-1)(1+t+t^2+\dots+t^m)$ : Apply this identity with  $t=2$  and  $m=a$  to obtain  $2^{a+1} - 1 = (2-1)(1+2+2^2+\dots+2^a)$ : Always keep in mind where you are trying to get to - it is a useful advice here! Proof. Since  $n$  is not a prime,  $\exists a, b \in \mathbb{N}$  such that  $n = a \cdot b$ ;  $1 < a, b < n$ .

### ~~Proofs and Mathematical Reasoning~~

Mathematical induction is a technique used to formulate all such proofs. The term recursion refers to a method of defining sequences of numbers, functions, and other objects. The term mathematical induction refers to a method of proving properties of such recursively defined objects. Completing this unit should take you approximately 4 hours.

### ~~Course: Introduction to Mathematical Reasoning~~

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An Introduction to Mathematical Reasoning Numbers, Sets and Functions. \$180.00 (X) textbook. Author: Peter J. Eccles, University of Manchester; Date Published: January 1998; availability: Available ; format: Hardback; isbn: 9780521592697; Average user rating (3 reviews) Rate & review \$ 180.00 (X)

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Synopsis. The purpose of this book is to introduce the basic ideas of mathematical proof to students embarking on university mathematics. The emphasis is on helping the reader in understanding and constructing proofs and writing clear mathematics. This is achieved by exploring set theory, combinatorics and number theory, topics which include many fundamental ideas which are part of the tool kit of any mathematician.

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