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that introduces
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writing proofs and focuses on the formal development of mathematics. The primary goals of the text are to help students: Develop logical thinking skills and to develop the ability to think ...

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A proof in mathematics is a convincing argument that some mathematical statement is true. A proof should contain enough mathematical detail to be convincing to the person (s) to whom the proof is addressed. In

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essence, a proof is an argument that communicates a mathematical truth to another person (who has the appropriate mathematical background). A proof must use correct, logical reasoning and be based on previously established results.

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3: Constructing and
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Reasoning: Writing
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introduces students to
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constructing and
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Reasoning focuses on the formal development of mathematics. Front Matter. 1: Introduction to Writing Proofs in Mathematics. 2: Logical Reasoning.

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Reasoning and Proof is only a minor revision of Version 2.1. The main change is that the Preview Activities in Version 2.1 have been renamed so they are now beginning activities. Learn more about the changes. Both books can be used in the same class. Version 2.1 was the recipient

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to be a text for the first course in the college mathematics curriculum that

introduces students to the processes of constructing and writing proofs and focuses on the formal development of mathematics. The primary goals of the text are to help students:

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the first college
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processes of

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writing proofs and

focuses on the formal

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mathematics. Version

3 of this book is

almost identical to

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change is that the
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Use your knowledge
about the even and
odd numbers, writing

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Reasoning 2kor

$2k+1$ for some

integer k . Proof. i. If n and m are even, then

there exist integers

k and j such that $n =$

$2k$ and $m = 2j$. Then $n +$

$m = 2k + 2j = 2(k + j)$:

And since $k, j \in \mathbb{Z}; (k + j) \in \mathbb{Z}$.

$n + m$ is even.

ii. and iii. are left for a reader as an exercise.

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using standard

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including direct

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Develop the ability to read and understand written mathematical proofs. Develop talents for creative thinking and problem solving. Improve their quality of communication in mathematics.

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This title is intended
for one-semester

courses in Transition

to Advanced

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emphasize the

construction and

writing of

mathematical proofs.

Focusing on the

formal development of

mathematics, this text

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Reasoning teaches students how to read and understand mathematical proofs and to construct and write mathematical proofs.

Mathematical Reasoning: Writing and Proof by Ted Sundstrom

If a proposition is false, the proposed

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proof is, of course, incorrect, and the student is asked to find the error in the proof and then provide a counterexample showing that the proposition is false. However, if the proposition is true, the proof may be incorrect or not well written.

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Two kinds of mathematical reasoning are inductive and deductive reasoning. Inductive reasoning includes intuitive pattern recognition and reasoning by

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analogy, from the part
to the whole. By
looking at several
examples or
examining data,
students can abstract
or

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Principia Mathematica

(Latin for

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Philosophy), often

referred to as simply

the Principia (/ p r ɪ n

ɪ s ɪ p i ɪ , p r ɪ n ɪ k ɪ p

i ɪ /), is a work in three

books by Isaac

Newton, in Latin, first

published 5 July

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