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Mathematical Proofs A Transition to Advanced Mathematics Gary Chartrand
WesternMichiganUniversity Albert D. Polimeni
StateUniversityofNewYorkatFredonia Ping Zhang

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Mathematical Proofs

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Mathematical Proofs: A Transition to Advanced Mathematics. As such, it is an introduction to the mathematics enterprise, providing solid introductions to relations, functions, and cardinalities of sets. KEY TOPICS: Communicating Mathematics, Sets, Logic, Direct Proof and Proof by Contrapositive, More on Direct Proof and Proof by Contrapositive,...

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Mathematical Proofs: A Transition to Advanced Mathematics, 4th Edition introduces students to proof techniques, analyzing proofs, and writing proofs of their own that are not only mathematically correct but clearly written. Written in a student-friendly manner, it provides a solid introduction to such topics as relations, functions, and cardinalities of sets, as well as optional excursions into fields such as number theory, combinatorics, and calculus.

Mathematical Proofs: A Transition to Advanced Mathematics

Third Edition Mathematical Proofs A Transition to Advanced Mathematics Gary Chartrand Western Michigan University Albert D. Polimeni State University of New York at Fredonia Ping Zhang Western Michigan University Boston Columbus Indianapolis New York San Francisco Upper Saddle River Amsterdam Cape Town Dubai London Madrid Milan Munich Paris Montreal Toronto

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Mathematical proofs : a transition to advanced mathematics

rst order logic and mathematical induction, our objective is to move to more advanced classical mathematical structures and arguments as soon as the student has an adequate understanding of the logic underlying mathematical proofs. 0.4. Advice to the Student Welcome to higher mathematics! If your exposure to University

Mathematical Proofs: A Transition to Advanced Mathematics, Third Edition (2012). The numbers in the parentheses refer to the corresponding problems in the Second Edition of the book, in case the numbers differ.

MTH 299-05

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*Mathematical Proofs: A Transition to
Advanced Mathematics ...*

Lectures: TuTh 11:00am - 12:15pm My
Office: Boyd 502 Office Hours: TuTh
2:00pm - 3:00pm, and by appointment

Course text: *Mathematical Proofs: A
Transition to Advanced Mathematics* by
Gary Chartrand, Albert D. Polimeni and
Ping Zhang, 2nd edition. The text is
required, for instance because most of the
homework problems will be assigned out
of it.

*Transition to Higher Mathematics: Structure
and Proof*

proofs. A passing grade in this course
indicates that a student should be able to read
and write mathematics at a level necessary
for more advanced courses in mathematics.
In addition to various proof-writing strategies,
we will also discuss the basics of logic, set
theory, number theory and real analysis. You
are expected to learn this