

Glencoe Advanced Mathematical Concepts

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advanced mathematical concepts provides comprehensive coverage of all the topics covered in a full year precalculus course its unique unit organization readily allows for semester courses in trigonometry discrete mathematics analytic geometry and algebra and elementary functions pacing and chapter charts for semester courses are conveniently located on page t4 of the teacher wraparound edition advanced mathematical concepts lessons develop mathematics using numerous examples real world applications and an engaging narrative graphs diagrams and illustrations are used throughout to help students visualize concepts directions clearly indicate which problems may require the use of a graphing calculator

this book is the first major study of advanced mathematical thinking as performed by mathematicians and taught to students in senior high school and university topics covered include the psychology of advanced mathematical thinking the processes involved mathematical creativity proof the role of definitions symbols and reflective abstraction it is highly appropriate for the college professor in mathematics or the general mathematics educator

this delightful book connects mathematical concepts in a dozen areas to magic tricks expositions of the mathematics precede description and analysis of the tricks the expositions are too short for in depth learning the intent is to give sophomores a taste of the content and ideas of later mathematics courses each chapter features exercises on the mathematics and students can have fun practicing the tricks mathematics magazine Teixeira and Park present over 60 different magic tricks while introducing students to high level math areas readers will learn really interesting ideas that will better prepare them for future courses and help them finding areas they might want to study deeper and as a side effect students will learn amazing magic tricks century old secrets and details from famous magicians and mathematicians the material was written to quickly present key concepts in several mathematical areas in direct way little or no proficiency in math is assumed in fact students do not require any calculus knowledge and since chapters are almost independent from each other this book also work as introduction to several other courses topics covered include mathematical proofs probability abstract algebra linear algebra mathematical computing number theory coding theory geometry topology real analysis numerical analysis and history of math

of interest to advanced students of economics as well as those seeking a greater understanding of the influence of mathematics on the dismal science advanced mathematical economics follows a long and celebrated tradition of the application of mathematical concepts to the social and physical sciences book jacket

compilation of the research produced by the international group for the psychology of mathematics education pme since its creation in 1976 the first three sections summarize cognitively oriented research on learning and teaching specific content areas transversal areas and based on technology rich environments the fourth section is devoted to the research on social affective cultural and cognitive aspects of mathematics education the fifth section includes two chapters summarizing the pme research on teacher training and professional life of mathematics teachers

this book intends to present a series of insights coming from in depth investigation of brain and mathematical cognition in chinese population specifically the book introduces research on the associations among number sense visual form perception and mathematical fluency symbolic and non symbolic mental number line and the role of spatial modeling and logical inference in mathematical problem solving the book summarizes author s previous studies on the involvement of semantic network other than visuospatial network in mathematical cognition the three component mathematical model that comes out of more than 10 years of research on mathematical cognition is introduced the book presents the effect of learning experience on arithmetic related brain system chinese abacus that can be used to eradicate developmental

dyscalculia in classroom is briefly discussed special attention in this book is paid to mathematical anxiety and mathematical learning disorders in chinese schoolchildren finally gender differences in mathematical cognition are also reviewed

this amte volume explores the future of mathematics teacher education reflecting on research and best practices it highlights teacher preparation across various contexts and grade levels while connecting to amte standards featuring insights from 95 contributors it addresses current challenges and opportunities to advance the field

this book argues that mathematical challenge can be found at any level and at every age and constitutes an essential characteristic of any mathematics classroom aimed at developing the students mathematical knowledge and skills since each mathematics classroom is heterogeneous with respect to students mathematical potential quality mathematical instruction results from matching the level of mathematical challenge to different students potential thus effective integration of mathematical challenge in the instructional process is strongly connected to the equity principle of mathematics education in the three sections in this volume readers can find diverse views on mathematical challenges in curriculum and instructional design kinds and variation of mathematically challenging tasks and collections of mathematical problems evidence based analysis is interwoven with theoretical positions expressed by the authors of the chapters cognitive social and affective characteristics of challenging mathematical activities are observed and analyzed the volume opens new avenues of research in mathematics education and pose multiple questions about mathematical instruction rich in mathematical challenge for all the authors invite readers to

explore and enjoy mathematical challenges at different levels

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