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engineers wanting an entrance to this burgeoning subject Understanding Topology Shaun V. Ault, 2018-01-30 A fresh approach to topology makes this complex topic easier for students to master Topology the branch of mathematics that studies the properties of spaces that remain unaffected by stretching and other distortions can present significant challenges for undergraduate students of mathematics and the sciences Understanding Topology aims to change that The perfect introductory topology textbook Understanding Topology requires only a knowledge of calculus and a general familiarity with set theory and logic Equally approachable and rigorous the book's clear organization worked examples and concise writing style support a thorough understanding of basic topological principles Professor Shaun V Ault's unique emphasis on fascinating applications from mapping DNA to determining the shape of the universe will engage students in a way traditional topology textbooks do not This groundbreaking new text presents Euclidean abstract and basic algebraic topology explains metric topology vector spaces and dynamics point set topology surfaces knot theory graphs and map coloring the fundamental group and homology includes worked example problems solutions and optional advanced sections for independent projects Following a path that will work with any standard syllabus the book is arranged to help students reach that Aha moment encouraging readers to use their intuition through local to global analysis and emphasizing topological invariants to lay the groundwork for algebraic topology *An Invitation to Knot Theory* Heather A. Dye, 2018-09-03 The Only Undergraduate Textbook to Teach Both Classical and Virtual Knot Theory An Invitation to Knot Theory Virtual and Classical gives advanced undergraduate students a gentle introduction to the field of virtual knot theory and mathematical research It provides the foundation for students to research knot theory and read journal articles on their own Each chapter includes numerous examples problems projects and suggested readings from research papers The proofs are written as simply as possible using combinatorial approaches equivalence classes and linear algebra The text begins with an introduction to virtual knots and counted invariants It then covers the normalized f polynomial Jones polynomial and other skein invariants before discussing algebraic invariants such as the quandle and biquandle The book concludes with two applications of virtual knots textiles and quantum computation **Mathematical Reviews**, 2006 **Teaching Mathematics Through Games** Mindy Capaldi, 2021-05-18 Active engagement is the key to learning You want your students doing something that stimulates them to ask questions and creates a need to know Teaching Mathematics Through Games presents a variety of classroom tested exercises and activities that provoke the active learning and curiosity that you hope to promote These games run the gamut from well known favorites like SET and Settlers of Catan to original games involving simulating structural inequality in New York or playing Battleship with functions The book contains activities suitable for a wide variety of college mathematics courses including general education courses math for elementary education probability calculus linear algebra history of math and proof based mathematics Some chapter activities are short term such as a drop in lesson for a day and some are longer including semester long projects All have been tested refined and include extensive implementation notes

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