

102 Combinatorial Problems

From the Training
of the USA IMO Team

Titu Andreescu
Zuming Feng

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102 Combinatorial Problems 1st Edition

M Walker



102 Combinatorial Problems 1st Edition:

102 Combinatorial Problems Titu Andreescu, Zuming Feng, 2013-11-27 102 Combinatorial Problems consists of carefully selected problems that have been used in the training and testing of the USA International Mathematical Olympiad IMO team Key features Provides in depth enrichment in the important areas of combinatorics by reorganizing and enhancing problem solving tactics and strategies Topics include combinatorial arguments and identities generating functions graph theory recursive relations sums and products probability number theory polynomials theory of equations complex numbers in geometry algorithmic proofs combinatorial and advanced geometry functional equations and classical inequalities The book is systematically organized gradually building combinatorial skills and techniques and broadening the student's view of mathematics Aside from its practical use in training teachers and students engaged in mathematical competitions it is a source of enrichment that is bound to stimulate interest in a variety of mathematical areas that are tangential to combinatorics

Exploring Mathematics John Meier, Derek Smith, 2017-08-07 Exploring Mathematics gives students experience with doing mathematics interrogating mathematical claims exploring definitions forming conjectures attempting proofs and presenting results and engages them with examples exercises and projects that pique their interest Written with a minimal number of pre requisites this text can be used by college students in their first and second years of study and by independent readers who want an accessible introduction to theoretical mathematics Core topics include proof techniques sets functions relations and cardinality with selected additional topics that provide many possibilities for further exploration With a problem based approach to investigating the material students develop interesting examples and theorems through numerous exercises and projects In text exercises with complete solutions or robust hints included in an appendix help students explore and master the topics being presented The end of chapter exercises and projects provide students with opportunities to confirm their understanding of core material learn new concepts and develop mathematical creativity

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