

Yong Su  
Bin Xiong



**Vol. 11** | Mathematical  
Olympiad  
Series

# Methods and Techniques for Proving Inequalities

# Methods And Techniques For Proving Inequalities Mathematical Olympiad

**Jiagu Xu**



## **Methods And Techniques For Proving Inequalities Mathematical Olympiad:**

*Methods And Techniques For Proving Inequalities: In Mathematical Olympiad And Competitions* Yong Su, Bin Xiong, 2015-10-06 In China lots of excellent maths students take an active interest in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they won the first place almost every year The authors are coaches of China's IMO National Team whose students have won many gold medals many times in IMO This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests such as algebra number theory combinatorics graph theory and geometry The book explains many basic techniques for proving inequalities such as direct comparison method of magnifying and reducing substitution method construction method and so on

**Methods and Techniques for Proving Inequalities** Yong Su, Bin Xiong, 2015 In China lots of excellent maths students take an active interest in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they won the first place almost every year The authors are coaches of China's IMO National Team whose students have won many gold medals many times in IMO This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests such as algebra number theory combinatorics graph theory and geometry The book explains many basic techniques for proving inequalities such as direct comparison method of magnifying and reducing substitution method construction method and so on

**Solving Problems In Geometry: Insights And Strategies For Mathematical Olympiad And Competitions** Kim Hoo Hang, Haibin Wang, 2017-05-19 This book is a useful reference for faculty members involved in contest preparation or teaching Euclidean geometry at the college level MAA Reviews This new volume of the Mathematical Olympiad Series focuses on the topic of geometry Basic and advanced theorems commonly seen in Mathematical Olympiad are introduced and illustrated with plenty of examples Special techniques in solving various types of geometrical problems are also introduced while the authors elaborate extensively on how to acquire an insight and develop strategies in tackling difficult geometrical problems This book is suitable for any reader with elementary geometrical knowledge at the lower secondary level Each chapter includes sufficient scaffolding and is comprehensive enough for the purpose of self study Readers who complete the chapters on the basic theorems and techniques would acquire a good foundation in geometry and may attempt to solve many geometrical problems in various mathematical competitions Meanwhile experienced contestants in Mathematical Olympiad competitions will find a large collection of problems pitched at competitions at the international level with opportunities to practise and sharpen their problem solving skills in geometry

**Problems And Solutions In Mathematical Olympiad (High School 2)** Shi-xiong Liu, 2022-04-08 The series is edited by the head coaches of China's IMO National Team Each volume catering to different

grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training team

**Sequences And Mathematical Induction:in Mathematical Olympiad And Competitions (2nd Edition)** Zhi-gang Feng,2019-10-08 In China lots of excellent maths students takes an active part in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China s IMO Team has achieved outstanding results they have won the first place almost every year The author is one of the senior coaches of China s IMO National Team he is the headmaster of Shanghai senior high school which is one of the best high schools of China In the past decade the students of this school have won the IMO gold medals almost every year The author attempts to use some common characteristics of sequence and mathematical induction to fundamentally connect Math Olympiad problems to particular branches of mathematics In doing so the author hopes to reveal the beauty and joy involved with math exploration and at the same time attempts to arouse readers interest of learning math and invigorate their courage to challenge themselves with difficult problems

Mathematical Olympiad In China (2011-2014): Problems And Solutions Bin Xiong,Peng Yee Lee,2018-03-22 The International Mathematical Olympiad IMO is a very important competition for high school students China has taken part in the IMO 31 times since 1985 and has won the top ranking for countries 19 times with a multitude of gold medals for individual students The six students China has sent every year were selected from 60 students among approximately 300 students who took part in the annual China Mathematical Competition during the winter months This book includes the problems and solutions of the most important mathematical competitions from 2010 to 2014 in China such as China Mathematical Competition China Mathematical Olympiad China Girls Mathematical Olympiad These problems are almost exclusively created by the experts who are engaged in mathematical competition teaching and researching Some of the solutions are from national training team and national team members their wonderful solutions being the feature of this book This book is useful to mathematics fans middle school students engaged in mathematical competition coaches in mathematics teaching and teachers setting up math elective courses

*Combinatorial Extremization: In Mathematical Olympiad And Competitions* Yuefeng Feng,2016-02-17 In China lots of excellent students who are good at maths takes an active part in various maths contests and the best six senior high school students will be

selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they have won the first place almost every year The author is one of the coaches of China's IMO National Team whose students have won many gold medals many times in IMO This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests such as algebra number theory combinatorics graph theory and geometry The book elaborates on methods of discrete extremization such as inequality control repeated extremum partial adjustment exploiting symmetry polishing transform space estimates etc **Probability**

**And Expectation: In Mathematical Olympiad And Competitions** Zun Shan,2016-07-14 In China lots of excellent students who are good at maths take an active part in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they have won the first place almost every year The author is one of the senior coaches of China's IMO National Team whose students have won many gold medals many times in IMO This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests such as algebra number theory combinatorics graph theory and geometry This book will in an interesting problem solving way explain what probability theory is its concepts methods and meanings particularly two important concepts probability and mathematical expectation briefly expectation are emphasized It consists of 65 problems appended by 107 exercises and their answers

**Mathematical Olympiad In China (2017-2018): Problems And Solutions** Bin Xiong,2022-08-29 In China lots of excellent maths students take an active part in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they won the first place almost every year The authors of this book are coaches of the China national team They are Xiong Bin Yao Yijun Qu Zhenhua et al Those who took part in the translation work are Wang Shanping and Chen Haoran The materials of this book come from a series of two books in Chinese on Forward to IMO A Collection of Mathematical Olympiad Problems 2017 2018 It is a collection of problems and solutions of the major mathematical competitions in China It provides a glimpse of how the China national team is selected and formed

**Combinatorial Problems In Mathematical Competitions** Yao Zhang,2011-03-10 This book focuses on combinatorial problems in mathematical competitions It provides basic knowledge on how to solve combinatorial problems in mathematical competitions and also introduces important solutions to combinatorial problems and some typical problems with often used solutions Some enlightening and novel examples and exercises are well chosen in this book With this book readers can explore analyze and summarize the ideas and methods of solving combinatorial problems Their mathematical culture and ability will be improved remarkably after reading this book Geometric Inequalities: In Mathematical Olympiad And Competitions

Gangsong Leng,2015-10-21 In China lots of excellent maths students take an active interest in various maths

contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad In the past ten years China's IMO Team has achieved outstanding results they won the first place almost every year The author is one of the coaches of China's IMO National Team whose students have won many gold medals many times in IMO This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests such as algebra number theory combinatorics graph theory and geometry The book elaborates on Geometric Inequality problems such as inequality for the inscribed quadrilateral the area inequality for special polygons linear geometric inequalities etc The Mathematical Olympiad Handbook Anthony Gardiner,1997 Mathematical Olympiad competitions started in Hungary at the end of the nineteenth century and are now held internationally They bring together able secondary school pupils who attempt to solve problems which develop their mathematical skills Olympiad problems are unpredictable and have no obvious starting point and although they require only the skills learnt in ordinary school problems they can seem much harder The Mathematical Olympiad Handbook introduces readers to these challenging problems and aims to convince them that Olympiads are not just for a select minority The book contains problems from the first 32 British Mathematical Olympiad BMO papers 1965-96 and gives hints and outline solutions to each problem from 1975 onwards An overview is given of the basic mathematical skills needed and a list of books for further reading is provided Working through the exercises provides a valuable source of extension and enrichment for all pupils and adults interested in mathematics

Algebraic Inequalities Hayk Sedrakyan,Nairi Sedrakyan,2018-07-05 This unique collection of new and classical problems provides full coverage of algebraic inequalities Many of the exercises are presented with detailed author prepared solutions developing creativity and an arsenal of new approaches for solving mathematical problems Algebraic Inequalities can be considered a continuation of the book Geometric Inequalities Methods of Proving by the authors This book can serve teachers high school students and mathematical competitors It may also be used as supplemental reading providing readers with new and classical methods for proving algebraic inequalities

**Problems And Solutions In Mathematical Olympiad (High School 1)** Bin Xiong,Zhi-gang Feng,2022-04-07 The series is edited by the head coaches of China's IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training

team     Inequalities Radmila Bulajich Manfrino, José Antonio Gómez Ortega, Rogelio Valdez Delgado, 2010-01-01 This book is intended for the Mathematical Olympiad students who wish to prepare for the study of inequalities a topic now of frequent use at various levels of mathematical competitions In this volume we present both classic inequalities and the more useful inequalities for confronting and solving optimization problems An important part of this book deals with geometric inequalities and this fact makes a big difference with respect to most of the books that deal with this topic in the mathematical olympiad The book has been organized in four chapters which have each of them a different character Chapter 1 is dedicated to present basic inequalities Most of them are numerical inequalities generally lacking any geometric meaning However where it is possible to provide a geometric interpretation we include it as we go along We emphasize the importance of some of these inequalities such as the inequality between the arithmetic mean and the geometric mean the Cauchy Schwarz inequality the rearrangement inequality the Jensen inequality the Muirhead theorem among others For all these besides giving the proof we present several examples that show how to use them in mathematical olympiad problems We also emphasize how the substitution strategy is used to deduce several inequalities     **Proofs in Competition Math:**

**Volume 1** Alexander Toller, Freya Edholm, Dennis Chen, 2019-07-04 All too often through common school mathematics students find themselves excelling in school math classes by memorizing formulas but not their applications or the motivation behind them As a consequence understanding derived in this manner is tragically based on little or no proof This is why studying proofs is paramount Proofs help us understand the nature of mathematics and show us the key to appreciating its elegance But even getting past the concern of why should this be true students often face the question of when will I ever need this in life Proofs in Competition Math aims to remedy these issues at a wide range of levels from the fundamentals of competition math all the way to the Olympiad level and beyond Don't worry if you don't know all of the math in this book there will be prerequisites for each skill level giving you a better idea of your current strengths and weaknesses and allowing you to set realistic goals as a math student So mathematical minds we set you off     **Automated Deduction - CADE 30**

Clark Barrett, Uwe Waldmann, 2025-07-29 This open access book constitutes the proceedings of the 30th International Conference on Automated Deduction CADE 30 which took place in Stuttgart Germany during July 2025 CADE is the major forum for the presentation of research in all aspects of automated deduction including foundations applications implementations and practical experience The 33 full papers and 4 short papers included in these proceedings were carefully reviewed and selected from 87 submissions They were organized in topical sections on SMT rewriting formalizations in Isabelle HOL calculi machine learning for automated deduction model checking and quantifier elimination saturation equational reasoning non classical logics and SAT     *Lecture Notes On Mathematical Olympiad Courses: For Senior Section - Volume 2* Jiagu Xu, 2012-03-21 Olympiad mathematics is not a collection of techniques of solving mathematical problems but a system for advancing mathematical education This book is based on the lecture notes of the mathematical Olympiad

training courses conducted by the author in Singapore Its scope and depth not only covers and beyond the usual syllabus but introduces a variety of concepts and methods in modern mathematics as well In each lecture the concepts theories and methods are taken as the core The examples serve to explain and enrich their intentions and to indicate their applications Besides appropriate number of test questions is available for the readers practice and testing purpose Their detailed solutions are also conveniently provided The examples are not very complicated so readers can easily understand There are many real competition questions included which students can use to verify their abilities These test questions originate from many countries all over the world This book will serve as a useful textbook of mathematical Olympiad courses a self study lecture notes for students or as a reference book for related teachers and researchers

### **Automated Deduction in**

**Geometry** Dongming Wang, 1998-03-18 This book constitutes the thoroughly refereed and revised post workshop proceedings of the International Workshop on Automated Deduction in Geometry held in Toulouse France in September 1996 The revised extended papers accepted for inclusion in the volume were selected on the basis of double reviewing Among the topics covered are automated geometric reasoning and the deduction applied to Dixon resultants Gröbner bases characteristic sets computational geometry algebraic geometry and planet motion furthermore the system REDLOG is demonstrated and the verification of geometric statements as well as the automated production of proof in Euclidean Geometry are present

Putnam and Beyond Răzvan Gelca, Titu Andreescu, 2017-09-19 This book takes the reader on a journey through the world of college mathematics focusing on some of the most important concepts and results in the theories of polynomials linear algebra real analysis differential equations coordinate geometry trigonometry elementary number theory combinatorics and probability Preliminary material provides an overview of common methods of proof argument by contradiction mathematical induction pigeonhole principle ordered sets and invariants Each chapter systematically presents a single subject within which problems are clustered in each section according to the specific topic The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world many original contributions come from the authors The source author and historical background are cited whenever possible Complete solutions to all problems are given at the end of the book This second edition includes new sections on quadratic polynomials curves in the plane quadratic fields combinatorics of numbers and graph theory and added problems or theoretical expansion of sections on polynomials matrices abstract algebra limits of sequences and functions derivatives and their applications Stokes theorem analytical geometry combinatorial geometry and counting strategies Using the W L Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics the reader is eased into transitioning from problem solving at the high school level to the university and beyond that is to mathematical research This work may be used as a study guide for the Putnam exam as a text for many different problem solving courses and as a source of problems for standard courses in



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