

Solutions

Twentieth International Olympiad, 1978

1978/1. Since 1978^n and 1978^m agree in their last three digits, the difference

$$1978^n - 1978^m = 1978^m(1978^{n-m} - 1)$$

is divisible by $10^3 = 2^3 \cdot 5^3$; and since the second factor above is odd, 2^3 divides the first. Also

$$1978^m = 2^m \cdot 989^m,$$

so $m \geq 3$.

We can write $m + n = (n - m) + 2m$; to minimize this sum, we take $m = 3$ and seek the smallest value of $d = n - m$, such that $1978^d - 1$ is divisible by $5^3 = 125$, i.e.

$$1978^d \equiv 1 \pmod{125}.$$

We shall twice make use of the following

LEMMA. *Let d be the smallest exponent such that $a^d \equiv 1 \pmod{N}$. Then any other exponent g for which $a^g \equiv 1 \pmod{N}$ is a multiple of d .*

PROOF: If d does not divide g , then $g = qd + r$ with $0 < r < d$, and $a^g \equiv a^{qd+r} \equiv 1 \pmod{N}$ implies $a^r \equiv 1 \pmod{N}$ with $0 < r < d$, contradicting the minimality of d . So $d|g$.

Fermat's theorem states:† For any prime p and any integer a not divisible by p ,

$$(1) \quad a^{p-1} \equiv 1 \pmod{p}.$$

For example,

$$1978^4 \equiv 1 \pmod{5}.$$

†For a proof, see e.g. p. 126 of S. L. Greitzer, *The International Mathematical Olympiads*, vol. 27 in this NML series.

International Math Olympiad Problems And Solutions

Stanley Rabinowitz, Mark Bowron



International Math Olympiad Problems And Solutions:

Problems And Solutions In Mathematical Olympiad (Secondary 2) Xiong-hui Zhao, 2024-07-02 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.

USA and International Mathematical Olympiads, 2005
Zuming Feng, Cecil Rousseau, Melanie Matchett Wood, 2006 The Mathematical Olympiad books covering the USA Mathematical Olympiad USAMO and the International Mathematical Olympiad IMO have been published annually by the MAA American Mathematics Competitions since 1976. This is the sixth volume in that series published by the MAA in its Problem Book series. The IMO is the work mathematics championship for high school students. It takes place annually in a different country each year. The aims of the IMO are 1 to discover encourage and challenge mathematically gifted young people in all countries 2 to foster friendships between mathematicians around the world 3 to create an opportunity for the exchange of information on school syllabi and practice throughout the world. The USAMO and the Team Selection Test TST are the last two stages of the selection process for the United States of America IMO team. The preceding examinations are the AMC 10 or AMC12 and the American Invitational Mathematics Examination AIME. Participation in the AIME USAMO and the TST is by invitation only based on performance in the preceding exams of the sequence. Through the AMC contests and the IMO young gifted mathematicians are identified and recognized while they are still in secondary school. Participation in the competitions provides them with the chance to measure themselves against other exceptional students from all over the world. This work was prepared by Zuming Feng Melanie Matchett Wood the Leader and Deputy Leader of the 2004 USA IMO team and by Cecil Rousseau the chair of the USAMO Committee. In addition to presenting their own carefully written solutions to the problems Zuming and Melanie provide remarkable solutions developed by the examination committees contestants and experts during or after the contests. They also provide a detailed report of the 2000 2004 USAMO IMO results and a comprehensive guide to other material that emphasize advances problem solving. This collection of excellent problems and beautiful solutions is a valuable companion for students who wish to develop their interest in mathematics outside the school curriculum and to deepen their knowledge of mathematics.

Mathematical Olympiad Challenges Titu

Andreescu, Razvan Gelca, 2008-12-04 Hundreds of beautiful challenging and instructive problems from algebra geometry trigonometry combinatorics and number theory Historical insights and asides are presented to stimulate further inquiry Emphasis is on creative solutions to open ended problems Many examples problems and solutions with a user friendly and accessible style Enhanced motivation References *The IMO Compendium* Dušan Djukić, Vladimir Janković, Ivan Matić, Nikola Petrović, 2011-05-05 The IMO Compendium is the ultimate collection of challenging high school level mathematics problems and is an invaluable resource not only for high school students preparing for mathematics competitions but for anyone who loves and appreciates mathematics The International Mathematical Olympiad IMO nearing its 50th anniversary has become the most popular and prestigious competition for high school students interested in mathematics Only six students from each participating country are given the honor of participating in this competition every year The IMO represents not only a great opportunity to tackle interesting and challenging mathematics problems it also offers a way for high school students to measure up with students from the rest of the world Until the first edition of this book appearing in 2006 it has been almost impossible to obtain a complete collection of the problems proposed at the IMO in book form The IMO Compendium is the result of a collaboration between four former IMO participants from Yugoslavia now Serbia and Montenegro to rescue these problems from old and scattered manuscripts and produce the ultimate source of IMO practice problems This book attempts to gather all the problems and solutions appearing on the IMO through 2009 This second edition contains 143 new problems picking up where the 1959 2004 edition has left off [Index to Mathematical Problems, 1975-1979](#) Stanley Rabinowitz, Mark Bowron, 1999 [Index to Mathematical Problems, 1980-1984](#) Stanley Rabinowitz, 1992 A compendium of over 5 000 problems with subject keyword author and citation indexes [Problems And Solutions In Mathematical Olympiad \(High School 3\)](#) Hong-bing Yu, 2022-03-16 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 **You Failed Your Math Test, Comrade Einstein** Mikhail A. Shifman, 2005 This groundbreaking work features two essays written by the renowned mathematician Ilan Vardi The first essay presents a thorough analysis of contrived problems suggested to undesirable applicants to the Department of Mathematics of Moscow University His second essay gives an in

depth discussion of solutions to the Year 2000 International Mathematical Olympiad with emphasis on the comparison of the olympiad problems to those given at the Moscow University entrance examinations The second part of the book provides a historical background of a unique phenomenon in mathematics which flourished in the 1970s 80s in the USSR Specially designed math problems were used not to test students ingenuity and creativity but rather as killer problems to deny access to higher education to undesirable applicants The focus of this part is the 1980 essay Intellectual Genocide written by B Kanevsky and V Senderov It is being published for the first time Also featured is a little known page of the Soviet history a rare example of the oppressed organizing to defend their dignity This is the story of the so called Jewish People s University the inception of which is associated with Kanevsky Senderov and Bella Subbotovskaya *Imo Problems, Theorems, And Methods: Geometry* Tianqi Lin, Bin Xiong, 2025-08-13 The problems in the International Mathematical Olympiad IMO are not only novel and interesting but also deeply rooted in profound mathematical context The team at the International Mathematical Olympiad Research Center at East China Normal University has compiled and studied problems from past IMOs dividing them into four volumes based on the mathematical fields involved algebra geometry number theory and combinatorics In the geometry volume the IMO geometry problems are organized into seven chapters Similarity and Congruence Basic Properties of Circles and Four Points on a Circle Power of a Point Radical Axis and Radical Center Special Points and Special Lines in a Triangle Trigonometry Areas and Analytic Geometry Solid Geometry and Geometric Inequalities Each chapter begins with an introduction to the relevant foundational knowledge and methods followed by a reclassification and reorganization of past IMO problems Multiple elegant solutions are provided for some of the problems along with a statistical analysis of their difficulty The book concludes with a record of past IMO participation and award information as well as an index of geometry problems facilitating further study and convenient reference This series is suitable for researchers in mathematical competitions mathematics educators and contestants *The IMO Compendium* Dušan Djukić, Vladimir Janković, Ivan Matić, Nikola Petrović, 2006-06-07 This is the ultimate collection of challenging high school level mathematics problems It is the result of a two year long collaboration to rescue these problems from old and scattered manuscripts and produce the definitive source of IMO practice problems in book form for the first time This book attempts to gather all the problems and solutions appearing on the IMO and contains a grand total of 1900 problems It is an invaluable resource for high school students preparing for mathematics competitions and for anyone who loves math *Number Theory* Titu Andreescu, Dorin Andrica, 2009-06-12 This introductory textbook takes a problem solving approach to number theory situating each concept within the framework of an example or a problem for solving Starting with the essentials the text covers divisibility unique factorization modular arithmetic and the Chinese Remainder Theorem Diophantine equations binomial coefficients Fermat and Mersenne primes and other special numbers and special sequences Included are sections on mathematical induction and the pigeonhole principle as well as a discussion of other number systems By emphasizing

examples and applications the authors motivate and engage readers

Problems and Solutions in Mathematical

Olympiad 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 brand in China The series is in line with the mathematics cognition and intellectual development level of the students in the corresponding grade The volume lines up the topics in each chapter and introduces a variety of concepts and methods to provide with the knowledge then gradually transitions to the competition level The content covers all the hot topics of the competition In each chapter there are packed with many problems including some real competition questions which students can use to verify their abilities Selected detailed answers are provided Some of the solutions are from national training team and national team members their wonderful solutions being the feature of this series

The Hard Mathematical Olympiad Problems and Their Solutions Steve Dinh,2011 This book shows the approaches to solving many difficult Mathematical Olympiad and other international problems posted at the www.mathlinks.ro the largest mathematical webpage that has most of the problems used to select the talented students of the world At the time of this book's publication the solutions to many of these problems are not yet available This book is not only as much about methods of solving mathematical problems as it is about various approaches to solving the difficult problems in general It is a first step in examining the creativity that goes into problem solving The real points of the book are the enumeration of problem solving strategies and the tricks applied to solve the problems The approaches in the book build understanding and not just methods in solving problems This book is a must read for many math students and is useful for many teachers around the world

[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

Mathematical Olympiad Problems Jagat Narain Kapur,1993 **The IMO Compendium** Dušan Djukić,Vladimir Janković,Ivan Matić,Nikola Petrović,2010-11-25 This is the ultimate collection of challenging high school level mathematics problems It is the result of a two year long collaboration to rescue these problems from old and scattered manuscripts and produce the definitive source of IMO practice problems in book form for the first time This book attempts to gather all the problems and solutions appearing on the IMO and contains a grand total of 1900 problems It is an invaluable resource for

high school students preparing for mathematics competitions and for anyone who loves math

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

Imo Problems, Theorems, And Methods: Number Theory Bin Xiong,Gengyu Zhang,2025-08-08 The problems in the International Mathematical Olympiad IMO are not only novel and interesting but also deeply rooted in profound mathematical context The team at the International Mathematical Olympiad Research Center at East China Normal University has compiled and studied problems from past IMOs dividing them into four volumes based on the mathematical fields involved algebra geometry number theory and combinatorics In the number theory volume the IMO number theory problems are organized into three chapters Divisibility of Integers Modular Arithmetic and Indeterminate Equations Each chapter begins with an introduction to the relevant foundational knowledge and methods followed by a reclassification and reorganization of past IMO problems Multiple elegant solutions are provided for some of the problems along with a statistical analysis of their difficulty The book concludes with a record of past IMO participation and award information as well as an index of number theory problems facilitating further study and convenient reference This series is suitable for researchers in mathematical competitions mathematics educators and contestants

USA and International Mathematical Olympiads, 2001 Titu Andreescu,Zuming Feng,2002 The Mathematical Olympiad examinations covering the USA Mathematical Olympiad USAMO and the International Mathematical Olympiad IMO have been published annually by the MAA American Mathematics Competitions since 1976 The IMO is the world mathematics championship for high school students It takes place annually in a different country The IMO competitions help to discover encourage and challenge mathematically gifted young people all over the world The USAMO and the Team Selection Test TST are the last two stages of the selection process leading to representing the United States of America in the IMO The preceding examinations are the AMC 10 or AMC 12 and the American Invitational Mathematics Examination AIME Participation in the AIME USAMO and the TST is by invitation only based on performance in the preceding exams of the sequence Through the AMC contests and the IMO young gifted mathematicians are identified and recognized while they are still in secondary school Participation in these

competitions provides them with the chance to measure themselves against other exceptional students from all over the world Editors Andreescu and Feng provide remarkable solutions developed by the examination committees contestants and experts during or after the contests They also provide a detailed report of the 1995 2000 USAMO IMO results and a comprehensive guide to other materials emphasizing advanced problem solving This collection of excellent problems and beautiful solutions is a valuable companion for students who wish to develop their interest in mathematics outside the school curriculum and to deepen their knowledge of mathematics

Imo Problems, Theorems, and Methods: Algebra JINHUA. XIONG CHEN (BIN.),XIONG,2025-07-27 The problems in the International Mathematical Olympiad IMO are not only novel and interesting but also deeply rooted in profound mathematical context The team at the International Mathematical Olympiad Research Center at East China Normal University has compiled and studied problems from past IMOs dividing them into four volumes based on the mathematical fields involved algebra geometry number theory and combinatorics In the algebra volume the IMO algebra problems are organized into five chapters Equation Problems Function Problems Sequence Problems Inequality Problems and Other Algebra Problems Each chapter begins with an introduction to the relevant foundational knowledge and methods followed by a reclassification and reorganization of past IMO problems Multiple elegant solutions are provided for some of the problems along with a statistical analysis of their difficulty The book concludes with a record of past IMO participation and award information as well as an index of algebra problems facilitating further study and easy reference for readers This series is suitable for researchers in mathematical competitions mathematical educators and contestants

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Table of Contents International Math Olympiad Problems And Solutions

1. Understanding the eBook International Math Olympiad Problems And Solutions
 - The Rise of Digital Reading International Math Olympiad Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying International Math Olympiad Problems And Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an International Math Olympiad Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from International Math Olympiad Problems And Solutions

- Personalized Recommendations
 - International Math Olympiad Problems And Solutions User Reviews and Ratings
 - International Math Olympiad Problems And Solutions and Bestseller Lists
5. Accessing International Math Olympiad Problems And Solutions Free and Paid eBooks
 - International Math Olympiad Problems And Solutions Public Domain eBooks
 - International Math Olympiad Problems And Solutions eBook Subscription Services
 - International Math Olympiad Problems And Solutions Budget-Friendly Options
 6. Navigating International Math Olympiad Problems And Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - International Math Olympiad Problems And Solutions Compatibility with Devices
 - International Math Olympiad Problems And Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of International Math Olympiad Problems And Solutions
 - Highlighting and Note-Taking International Math Olympiad Problems And Solutions
 - Interactive Elements International Math Olympiad Problems And Solutions
 8. Staying Engaged with International Math Olympiad Problems And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers International Math Olympiad Problems And Solutions
 9. Balancing eBooks and Physical Books International Math Olympiad Problems And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection International Math Olympiad Problems And Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine International Math Olympiad Problems And Solutions
 - Setting Reading Goals International Math Olympiad Problems And Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of International Math Olympiad Problems And Solutions

- Fact-Checking eBook Content of International Math Olympiad Problems And Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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