

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 $a^g \equiv a^{qd}a^r \equiv 1 \pmod{N}$ 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

Hong-bing Yu



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.

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.

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.

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

A First Step To Mathematical Olympiad Problems Derek Allan Holton, 2009-07-30 See also A SECOND STEP TO MATHEMATICAL OLYMPIAD PROBLEMS The International Mathematical Olympiad IMO is an annual international mathematics competition held for pre collegiate students It is also the oldest of the international science olympiads and competition for places is particularly fierce This book is an amalgamation of the first 8 of 15 booklets originally produced to guide students intending to contend for placement on their country's IMO team The material contained in this book provides an introduction to the main mathematical topics covered in the IMO which are Combinatorics Geometry and Number Theory In addition there is a special emphasis on how to approach unseen questions in Mathematics and model the writing of proofs Full answers are given to all questions Though A First Step to Mathematical Olympiad Problems is written from the perspective of a mathematician it is written in a way that makes it easily comprehensible to adolescents This book is also a must read for coaches and instructors of mathematical competitions

Problems And Solutions In Mathematical Olympiad (Secondary 1) Zun Shan, 2024-05-28 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

Mathematical Olympiad In China (2021-2022): Problems And Solutions, 2024-03-19 In China many excellent students in mathematics take an active part in various mathematical contests and each year the best six senior high school students are 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 first place almost every year The authors of this book are coaches of the China national team They are Xiong Bin Xiao Liang Yu Hongbing Yao Yijun Qu Zhenhua Li Ting Ai Yinhua Wang Bin Fu Yunhao He Yijie Zhang Sihui Wang Xinmao Lin Tianqi Xu Disheng et al Those who took part in the translation work are Chen Haoran and Zhao Wei The

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problems It is an invaluable resource for high school students preparing for mathematics competitions and for anyone who loves math

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

USA and International Mathematical Olympiads, 2005 Zuming Feng,Cecil Rousseau,Melanie Matchett Wood,2006 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 This collection of excellent problems and beautiful solutions is a valuable companion for students who wish to develop their interest in mathematics

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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 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.

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