

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.

Mathematics Olympiad Problems And Solutions

Bin Xiong



Mathematics 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

Mathematical Olympiads 1998-1999 Titu Andreescu,Zuming Feng,2000-11-02 A large range of problems drawn from mathematics olympiads from around the world

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

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Mathematical Olympiads 2000-2001 Titu Andreescu,Zuming Feng,George Lee,2003-10-16 Problems and solutions from Mathematical Olympiad Ideal for anyone interested in mathematical problem solving

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. *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. **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. **Mathematical Olympiad In China (2019-2020): Problems And Solutions** Bin Xiong, 2022-09-29. 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 Zhao Wei and Zhou Tianyou. The materials of this book come from a series of two books in Chinese on *Forward to IMO: A Collection of Mathematical Olympiad Problems 2019-2020*. 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, 1994. Mathematical

Olympiad In China (2009-2010): Problems And Solutions Bin Xiong,Peng Yee Lee,2013-02-20 The International Mathematical Olympiad IMO is a competition for high school students China has taken part in the IMO 21 times since 1985 and has won the top ranking for countries 14 times with a multitude of golds for individual students The six students China has sent every year were selected from 20 to 30 students among approximately 130 students who took part in the annual China Mathematical Competition during the winter months This volume of comprises a collection of original problems with solutions that China used to train their Olympiad team in the years from 2009 to 2010 Mathematical Olympiad problems with solutions for the years 2002 2008 appear in an earlier volume Mathematical Olympiad in China **Mathematical**

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updated printing of the first edition of Colorado Mathematical Olympiad the First Twenty Years and Further Explorations gives the interesting history of the competition as well as an outline of all the problems and solutions that have been created for the contest over the years Many of the essay problems were inspired by Russian mathematical folklore and written to suit the young audience for example the 1989 Sugar problem was written in a pleasant Lewis Carroll like story Some other entertaining problems involve olde Victorian map colourings King Authur and the knights of the round table rooks in space Santa Claus and his elves painting planes football for 23 and even the Colorado Springs subway system **Mathematical**

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Problems, 1975-1979 Stanley Rabinowitz,Mark Bowron,1999 *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

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The William Lowell Putnam Mathematical Competition 1985-2000: Problems, Solutions, and Commentary Kiran S. Kedlaya, Bjorn Poonen, Ravi Vakil, 2020-01-16 This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes The authors highlight connections to other problems to the curriculum and to more advanced topics The best problems contain kernels of sophisticated ideas related to important current research and yet the problems are accessible to undergraduates The solutions have been compiled from the American Mathematical Monthly Mathematics Magazine and past competitors Multiple solutions enhance the understanding of the audience explaining techniques that have relevance to more than the problem at hand In addition the book contains suggestions for further reading a hint to each problem separate from the full solution and background information about the competition The book will appeal to students teachers professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics

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