



奧冠教育中心 OLYMPIAD CHAMPION EDUCATION CENTRE

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香港國際數學競賽總決賽 2021 HONG KONG INTERNATIONAL MATHEMATICAL OLYMPIAD FINAL ROUND 2021

中學二年級 Secondary 2

時限：120 分鐘

Time allowed: 120 minutes

試題

Question Paper

考生須知：

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1. 本卷包括 試題 乙份，試題紙不可取走。
Each contestant should have ONE Question-Answer Book which CANNOT be taken away.
2. 本卷共 5 個範疇，每範疇有 6 題，共 30 題，每題 5 分，總分 150 分，答錯不扣分。
There are 5 exam areas and 6 questions in each exam area. There are a total of 30 questions in this Question-Answer Book. Each carries 5 marks. Total score is 150 marks. No points are deducted for incorrect answers.
3. 請將答案寫在 **答題紙** 上。
All answers should be written on ANSWER SHEET.
4. 比賽期間，不得使用計算工具。
NO calculators can be used during the contest.
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All figures in the paper are not necessarily drawn to scale.
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This Question-Answer Book will be collected at the end of the contest.

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Write down the answer in the simplest form. If the calculation result is a fraction, please write down the answer as a proper or mixed fraction, decimal figure is also accepted. Marks will NOT be given for incorrect unit.

Hong Kong Mathematics Olympiad Answers

Titu Andreescu, Răzvan Gelca



Hong Kong Mathematics Olympiad Answers:

Mathematical Olympiads 1999-2000 Titu Andreescu, Zuming Feng, 2002-05-16 Challenging problems in maths plus solutions to those featured in the earlier Olympiad book

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 Yinghua 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 materials of this book come from a series of two books in Chinese on Forward to IMO a collection of mathematical Olympiad problems 2021 2022 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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Mathematics Olympiad Masterpiece Series - High School Level Mathewmatician, Suitable for high school students with high mathematics ability and people above high school level High school students with higher mathematics ability should learn more in depth Mathematical Olympiad topics through independent learning methods to further improve their mathematics level which is conducive to studying university subjects in the future *Metric Space Topology: Examples, Exercises And Solutions* Wing-sum Cheung,2023-10-18 This introductory book contains a rich collection of exercises and worked examples in Metric Spaces Other than questions in the traditional setting plenty of True or False type questions and open ended questions are included With detailed solutions these are highly effective in helping students gain a bird s eye view and master the subject and pitfalls better The presentation is clear in nurturing the mathematical insights and

mathematical maturity of the readers In this book the pictorialization or visualization of abstract situations into simple pictures is very often crucially conducive to the understanding of the materials This serves to give an insightful view of the intricate problems as well as a clue or a direction to formulate rigorous arguments The learning outcomes include

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

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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 (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 Olympiad Challenges Titu Andreescu,Răzvan Gelca,2000-04-26 A collection of problems put together by coaches of the U S International Mathematical Olympiad Team A Little History of Mathematics Snezana Lawrence,2025-05-13 A lively accessible history of mathematics throughout the ages and across the globe Mathematics is fundamental to our daily lives Science computing economics all aspects of modern life rely on some kind of maths But how did our ancestors think about numbers How did they use mathematics to explain and understand the world around them Where do numbers even come from In this Little History Snezana Lawrence traces the fascinating history of mathematics from the Egyptians and Babylonians to Renaissance masters and enigma codebreakers Like literature music or philosophy mathematics has a rich history of breakthroughs creativity and experimentation And its story is a global one We see Chinese Mathematical Art from 200 BCE the invention of algebra in Baghdad's House of Wisdom and sangaku geometrical theorems at Japanese shrines Lawrence goes beyond the familiar names of Newton and Pascal exploring the prominent role women have played in the history of maths including Emmy Noether and Maryam Mirzakhani **Scientific and Technical Aerospace Reports** ,1995-08 **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

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