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1 13 , = 6 13. Example 10. If $ab < 0$, then the relation in sizes of $(a-b)^2$ and $(a+b)^2$ is (A) $(a-b)^2 < (a+b)^2$; (B) $(a-b)^2 = (a+b)^2$; (C) $(a-b)^2 > (a+b)^2$; (D) not determined. Lecture Notes on Mathematical Olympiad 5. Solution From $(a-b)^2 = a^2 - 2ab + b^2 = a^2 + 2ab + b^2 - 4ab = (a+b)^2 - 4ab > (a+b)^2$, the answer is (C). Example 11.

Lecture Notes on Mathematical Olympiad Courses

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.

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<https://doi.org/10.1142/7600> | December 2009. Pages:

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376. By (author): Jiagu Xu (Former Professor of Mathematics, Fudan University, China) Lecture Notes on Mathematical Olympiad Courses : For Junior Section Volume 1. Lecture Notes on Mathematical Olympiad Courses : For Junior Section Volume 2.

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<https://doi.org/10.1142/8290> | March 2012. Pages: 556. By (author): Jiagu Xu (Former Professor of Mathematics, Fudan University, China) Lecture Notes on Mathematical Olympiad Courses : For Senior Section Volume 1. Lecture Notes on Mathematical Olympiad Courses : For Senior Section Volume 2.

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Solution The conditions $a+c=2b$ and $a^2+b^2+c^2=84$ yield $ac=1/2[(a+c)^2-(a^2+c^2)]=1/2(5b^2-84)$:
Lecture Notes on Mathematical Olympiad 67. By the inverse Viète theorem, the equation $x^2+bx+5b^2-84=0$ has two distinct roots a and c , so its discriminant is positive, i.e. $\Delta=4b^2-(5b^2-84)=168-6b^2>0$, which implies $b^2<28$.

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Books Kinokuniya: Lecture Notes on Mathematical Olympiad ...

I returned to the Math Olympiad Summer Program for two weeks. This time, in addition to teaching several courses in Combinatorics, I also directed a new initiative (sponsored by a new grant from the National Science Foundation) to connect Olympiad mathematics with research mathematics. Lecture notes are below:

Math Olympiad teaching notes

Training Handbook - Sec 1 Includes Lecture Notes on Mathematical Olympiad Courses For Junior. This Math Olympiad course is designed to teach the major strategies of problem solving, to foster mathematical creativity, and to stimulate enthusiasm and love for the types of problems that students encounter in competitive mathematics.

Math olympiad training notes

The International Mathematical Olympiad (IMO) is a mathematical olympiad for pre-college students, and is the oldest of the International Science Olympiads. The first IMO was held in Romania in 1959. It has since been held annually, except in 1980. More than 100 countries, representing over 90% of the world's population, send teams of up to six students, plus one team leader, one deputy leader ...

International Mathematical Olympiad - Wikipedia

Xu Jiagu. Lecture Notes on Mathematical Olympiad Courses (For Senior Section Vol.1) World Scientific, 2012. — 260 p. Although Mathematical Olympiad competitions are carried out by solving problems, the

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system of Mathematical Olympiads and the related training courses cannot only of problem solving techniques.

Xu Jiagu. Lecture Notes on Mathematical Olympiad (for ...

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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.

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Charita Satrio

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.

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This book comprises the full selected Regular Lectures from the Proceedings of the 12th International Congress on Mathematical Education (ICME-12), which was held at COEX in Seoul, Korea, from July 8th to 15th, 2012. ICME-12 brought together 4700 experts from 100 countries, working to understand all of the intellectual and attitudinal challenges in the subject of mathematics education as a multidisciplinary research and practice. These selected Regular Lectures present the work of fifty-one prominent mathematics educators from all over the globe. The Lectures cover a wide spectrum of topics, themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education. This book is of particular interest to researchers, teachers and curriculum developers in mathematics education.

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

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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*."

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.

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