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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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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  $x^2+2bx+5b^2-84=0$  has two distinct roots  $a$  and  $c$ , so its discriminant is positive, i.e.  $\Delta=4b^2-2(5b^2-84)=168-6b^2>0$ , which implies  $b^2<28$ .

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

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Errata(s). Errata. Sample Chapter(s). Lecture 1: Operations on Rational Numbers (145k). Request Inspection Copy.

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**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.

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Annotation. This text provides basic knowledge on how to solve combinatorial problems in mathematical competitions, and also introduces important solutions to combinatorial problems and some typical problems with often-used solutions.

This is a challenging problem-solving book in Euclidean geometry, assuming nothing of the reader other than a good deal of courage. Topics covered included cyclic quadrilaterals, power of a point, homothety, triangle centers; along the way the reader

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will meet such classical gems as the nine-point circle, the Simson line, the symmedian and the mixtilinear incircle, as well as the theorems of Euler, Ceva, Menelaus, and Pascal. Another part is dedicated to the use of complex numbers and barycentric coordinates, granting the reader both a traditional and computational viewpoint of the material. The final part consists of some more advanced topics, such as inversion in the plane, the cross ratio and projective transformations, and the theory of the complete quadrilateral. The exposition is friendly and relaxed, and accompanied by over 300 beautifully drawn figures. The emphasis of this book is placed squarely on the problems. Each chapter contains carefully chosen worked examples, which explain not only the solutions to the problems but also describe in close detail how one would invent the solution to begin with. The text contains a selection of 300 practice problems of varying difficulty from contests around the world, with extensive hints and selected solutions. This book is especially suitable for students preparing for national or international mathematical olympiads or for teachers looking for a text for an honor class.

New mathematics often comes about by probing what is already known. Mathematicians will

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change the parameters in a familiar calculation or explore the essential ingredients of a classic proof. Almost magically, new ideas emerge from this process. This book examines elementary functions, such as those encountered in calculus courses, from this point of view of experimental mathematics. The focus is on exploring the connections between these functions and topics in number theory and combinatorics. There is also an emphasis throughout the book on how current mathematical software can be used to discover and prove interesting properties of these functions. The book provides a transition between elementary mathematics and more advanced topics, trying to make this transition as smooth as possible. Many topics occur in the book, but they are all part of a bigger picture of mathematics. By delving into a variety of them, the reader will develop this broad view. The large collection of problems is an essential part of the book. The problems vary from routine verifications of facts used in the text to the exploration of open questions.

Number theory is an important research field of mathematics. In mathematical competitions, problems of elementary number theory occur frequently. These problems use little knowledge and have many variations. They are flexible and diverse. In this book, the author introduces some basic concepts and

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