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An olympiad level study of algebra involves familiarity with intermediate topics to a high level, a few new topics, and a highly developed proof writing ability. Functions. Greatest integer function/Least integer function; Polynomials; Functional Equations; Inequalities. Arithmetic Mean-Geometric Mean Inequality; Cauchy-Schwarz Inequality; Chebyshev's Inequality

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Adding the two equations and subtracting the two equations in the original system yields the new system. $u - uv = (a+b)(1-uv)$. $v + uv = (a-b)(1-uv)$. Multiplying the above two equations yields $uv(1-uv) = (a^2 - b^2)(1-uv)$

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$uv)$, hence $uv = a^2 - b^2$. It follows that.
 $u - (a+b) \mid a^2 + b^2$ and $v = (a - b) \mid a^2 + b^2$.

~~101 PROBLEMS IN ALGEBRA — MATHEMATICAL OLYMPIADS~~

6. December 2019. 8 Minutes. “Nowadays, every good student at the National Olympiad should know at least some field theory to solve number theory problems...”. Pleinfeld, 2015. I was sitting in a training/selection camp for Germany’s National Olympiad with the brightest minds in Bavaria. I was in 10th grade.

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These are some handouts I've written over the years. The Math and Problem Solving sections of my personal blog might also be of interest. See also Recommendations for other authors I like, as well as my geometry book for a comprehensive textbook in Euclidean geometry. See also Problems for contest papers.. If you notice any errors, please let me know! LaTeX notes: I provided the LaTeX source ...

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~~The British Mathematical Olympiad~~

a a. Answer is: 12. METHOD 1: List the factor pairs of 72. The factor pairs of 72 are: (1 and 72), (2 and 36), (3 and 24), (4 and 18), (6 and 12), (8 and 9). The quotients (larger/smaller) are 72, 18, 8, 4.5, 2, and 1.125 respectively. The two factors are 6 and 12, so the larger number is 12. METHOD 2: Use algebra.

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This is great collection of algebra problems and solutions from Mathematical Olympiads and competitions around the world.

This book is useful for the students who are preparing for olympiads. This is the first volume of the series. Each chapter consists of Synopsis, Exercise-1 and Exercise - 2. Exercise - 1 is completely solved. Students are advised to attempt sincerely twice without the help of solutions. Then they can go through the solutions. Exercise - 2 can be solved in examination conditions.

Over 300 challenging problems in algebra, arithmetic, elementary number theory and trigonometry, selected from Mathematical Olympiads held at Moscow University. Only high school math needed. Includes complete solutions. Features 27 black-and-white illustrations. 1962 edition.

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Introduction to Math Olympiad Problems aims to introduce high school students to all the necessary topics that frequently emerge in international Math Olympiad competitions. In addition to introducing the topics, the book will also provide several repetitive-type guided problems to help develop vital techniques in solving problems correctly and efficiently. The techniques employed in the book will help prepare students for the topics they will typically face in an Olympiad-style event, but also for future college mathematics courses in Discrete Mathematics, Graph Theory, Differential Equations, Number Theory and Abstract Algebra. Features: Numerous problems designed to embed good practice in readers, and build underlying reasoning, analysis and problem-solving skills Suitable for advanced high school students preparing for Math Olympiad competitions

This book is a translation from Russian of Part I of the book Mathematics Through Problems: From Olympiads and Math Circles to Profession. The other two parts, Geometry and Combinatorics, will be published soon. The main goal of this book is to develop important parts of mathematics through problems. The author tries to put together sequences of problems that allow high school students (and some undergraduates) with

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strong interest in mathematics to discover and recreate much of elementary mathematics and start edging into the sophisticated world of topics such as group theory, Galois theory, and so on, thus building a bridge (by showing that there is no gap) between standard high school exercises and more intricate and abstract concepts in mathematics. Definitions and/or references for material that is not standard in the school curriculum are included. However, many topics in the book are difficult when you start learning them from scratch. To help with this, problems are carefully arranged to provide gradual introduction into each subject. Problems are often accompanied by hints and/or complete solutions. The book is based on classes taught by the author at different times at the Independent University of Moscow, at a number of Moscow schools and math circles, and at various summer schools. It can be used by high school students and undergraduates, their teachers, and organizers of summer camps and math circles. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession.

A unique collection of competition problems

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from over twenty major national and international mathematical competitions for high school students. Written for trainers and participants of contests of all levels up to the highest level, this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a "problem of the week", thus bringing a creative atmosphere into the classrooms. Equally, this is a must-have for individuals interested in solving difficult and challenging problems. Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions. Most of the solutions are complete, but some merely point to the road leading to the final solution. In addition to being a valuable resource of mathematical problems and solution strategies, this is the most complete training book on the market.

This is a book on Olympiad Mathematics with detailed and elegant solution of each problem. This book will be helpful for all the students preparing for RMO, INMO, IMO, ISI and other National & International Mathematics competitions. The beauty of this book is it contains "Original Problems" framed by authors Daniel Sitaru (Editor-In-Chief of Romanian Mathematical Magazine) & Rajeev Rastogi (Senior Maths Faculty for IIT-JEE and Olympiad in Kota, Rajasthan)

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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 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

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teachers looking for a text for an honor class.

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