

## Algebra For Olympiads Problems And Solutions

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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

~~Olympiad Topics in Algebra - Art of Problem Solving~~

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Adding the two equations and subtracting the two equations in the original system yields the new system.  $u - uv = (a+b) - uv$ .  $v + uv = (a-b) - uv$ . Multiplying the above two equations yields  $uv(1 - uv) = (a^2 - b^2)(1 - uv)$ , hence  $uv = a^2 - b^2$ . It follows that  $u = \frac{a^2 - b^2}{a+b}$  and  $v = \frac{a^2 - b^2}{a-b}$ .

~~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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~~Art of Problem Solving~~

Practice problems for the Math Olympiad P. Gracia, D. Klein, L. Luxemburg, L. Qiu, J. Szucs <Problem #1> Is there a tetrahedron such that its every edge is adjacent to some obtuse angle for one of the faces? Answer: No. Definitions: In geometry, a tetrahedron (Figure 1) is a polyhedron composed of four triangular faces,

~~Practice problems for the Math Olympiad~~

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 ...

~~Evan Chen & Olympiad~~

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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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Problems. Language versions of problems are not complete. Please send relevant PDF files to the webmaster: webmaster@imo-official.org.

## ~~Problems — International Mathematical Olympiad~~

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