



Serge Lang

MATH!

**Encounters with
High School Students**



Springer-Verlag

Math Encounters With High School Students

Michael Hoelscher



Math Encounters With High School Students:

Math! Serge Lang, 2013-03-14 *Geometry* Serge Lang, Gene Murrow, 1988-08-25 From the reviews A prominent research mathematician and a high school teacher have combined their efforts in order to produce a high school geometry course The result is a challenging vividly written volume which offers a broader treatment than the traditional Euclidean one but which preserves its pedagogical virtues The material included has been judiciously selected some traditional items have been omitted while emphasis has been laid on topics which relate the geometry course to the mathematics that precedes and follows The exposition is clear and precise while avoiding pedantry There are many exercises quite a number of them not routine The exposition falls into twelve chapters 1 Distance and Angles 2 Coordinates 3 Area and the Pythagoras Theorem 4 The Distance Formula 5 Some Applications of Right Triangles 6 Polygons 7 Congruent Triangles 8 Dilatations and Similarities 9 Volumes 10 Vectors and Dot Product 11 Transformations 12 Isometries This excellent text presenting elementary geometry in a manner fully corresponding to the requirements of modern mathematics will certainly obtain well merited popularity Publications Mathematicae Debrecen 1

Math Talks for Undergraduates Serge Lang, 2012-12-06 For many years Serge Lang has given talks to undergraduates on selected items in mathematics which could be extracted at a level understandable by students who have had calculus Written in a conversational tone Lang now presents a collection of those talks as a book The talks could be given by faculty but even better they may be given by students in seminars run by the students themselves Undergraduates and even some high school students will enjoy the talks which cover prime numbers the abc conjecture approximation theorems of analysis Bruhat Tits spaces harmonic and symmetric polynomials and more in a lively and informal style

Introduction to Arakelov Theory Serge Lang, 2012-12-06 Arakelov introduced a component at infinity in arithmetic considerations thus giving rise to global theorems similar to those of the theory of surfaces but in an arithmetic context over the ring of integers of a number field The book gives an introduction to this theory including the analogues of the Hodge Index Theorem the Arakelov adjunction formula and the Faltings Riemann Roch theorem The book is intended for second year graduate students and researchers in the field who want a systematic introduction to the subject The residue theorem which forms the basis for the adjunction formula is proved by a direct method due to Kunz and Waldi The Faltings Riemann Roch theorem is proved without assumptions of semistability An effort has been made to include all necessary details and as complete references as possible especially to needed facts of analysis for Green s functions and the Faltings metrics

Popular Culture, Educational Discourse, and Mathematics Peter M. Appelbaum, 1995-04-26 This ground breaking book analyzes contemporary education discourse in the light of curriculum politics and popular culture using sources ranging from academic scholarship to popular magazines music video film and television game shows Mathematics is used as an extreme case since it is a discipline so easily accepted as separable from politics ethics or the social construction of knowledge Appelbaum s juxtaposition of popular culture public debate and professional practice

enables an examination of the production and mediation of common sense distinctions between school mathematics and the world outside of schools Terrain ordinarily displaced or excluded by traditional education literature becomes the pendulum for a new conversation which merges research and practice while discarding pre conceived categories of understanding The book also serves as an entertaining introduction to emerging theories in cultural studies progressively illustrating the uses of discourse analysis for comprehending ideology the implications of power knowledge links professional practice as a technology of power and curriculum as at once commodities and cultural resources In this way Appelbaum effectively reveals a direction for teachers students and researchers to cooperatively form a community attentive to the politics of curriculum and popular culture

Summaries of Projects Completed National Science Foundation (U.S.), **Summaries of Projects Completed in Fiscal Year ...** ,1979 *Summaries of Projects Completed in Fiscal Year ...* National Science Foundation (U.S.),1979 **The Mathematical Gazette** ,1987 American Scientist ,1942 **The Mathematical Intelligencer** ,1986 **Revue Roumaine de Mathématiques Pures Et Appliquées** ,1987 Popular Culture, Professional Discourse, and Mathematics Peter Michael Appelbaum,1992 Journal for Research in Mathematics Education ,1986 **Annales de l'Institut Fourier** ,1986 *International Mathematical News* ,1987 Issues for Dec 1952 include section Nachrichten der sterreichischen Mathematischen Gesellschaft The Australian Mathematics Teacher ,1987 **A. M. Kir. Ferencz Jozsef-Tudományegyetem tudományos közleményei. Matematikai tudományok** József Attila Tudományegyetem,1986 *Nuclei, Particles and Fields* ,1986 Czechoslovak Scientific and Technical Periodicals Contents ,1988

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