



Serge Lang

MATH!

**Encounters with
High School Students**



Springer-Verlag

Math Encounters With High School Students

Serge Lang



Math Encounters With High School Students:

Math! Serge Lang, 2013-03-14 **Geometry** Serge Lang, Gene Murrow, 2013-04-17 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 Publicationes Mathematicae Debrecen 1 Mathematical Encounters Paul Chika Emekwulu, 2010-12-29 Norman Author Pens Innovative Math Book Mathematical Encounters for the Inquisitive Mind a new work by Paul Chika Emekwulu of Norman takes an original approach to math Emekwulu an award winning author and motivational speaker hopes his works has something for everyone The work is not strictly in line with any traditional curriculum Sample Chapters include A Student's Logic Under Trial Verifying a summation strategy for first n Fibonacci numbers From Murder Scene to Building and Transforming Word Problems into Simple Equations Using Your Intuition for Self Empowerment Mathematics Behind Bars My Experience with U S Immigration Courtesy of The Norman Transcript **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

Mathematics for Engineers and Scientists Vinh Phu Nguyen, 2025-01-28 A majority of mathematics textbooks are written in a rigorous concise dry and boring way On the other hands there exist excellent engaging fun to read popular math books The problem with these popular books is the lack of mathematics itself This book is a blend of both It provides a mathematics book to read to engage with and to understand the whys the story behind the theorems Written by an engineer not a mathematician who struggled to learn math in high school and in university this book explains in an informal voice the mathematics that future and current engineering and science students need to acquire If we learn math to understand it to enjoy it not to pass a test or an exam we all learn math better and there is no such a thing that we call math phobia With a slow pace and this book everyone can learn math and use it as the author did at the age of 40 and with a family to take care of

Short Calculus Serge Lang, 2012-12-06 Praise for the first edition Lang's present book is a source of interesting ideas and brilliant techniques Acta Scientiarum Mathematicarum It is an admirable straightforward introduction to calculus Mathematika This is a reprint of A First Course in Calculus which has gone through five editions since the early sixties It covers all the topics traditionally taught in the first year calculus sequence in a brief and elementary fashion As sociological and educational conditions have evolved in various ways over the past four decades it has been found worthwhile to make the original edition available again The audience consists of those taking the first calculus course in high school or college The approach is the one which was successful decades ago involving clarity and adjusted to a time when the students background was not as substantial as it might be We are now back to those times so its time to start over again There are no epsilons delta but this does not imply that the book is not rigorous Lang

learned this attitude from Emil Artin around 1950 Complex Analysis Serge Lang, 2013-03-14 The present book is meant as a text for a course on complex analysis at the advanced undergraduate level or first year graduate level The first half more or less can be used for a one semester course addressed to undergraduates The second half can be used for a second semester at either level Somewhat more material has been included than can be covered at leisure in one or two terms to give opportunities for the instructor to exercise individual taste and to lead the course in whatever directions strikes the instructor's fancy at the time as well as extra reading material for students on their own A large number of routine exercises are included for the more standard portions and a few harder exercises of striking theoretical interest are also included but may be omitted in courses addressed to less advanced students In some sense I think the classical German prewar texts were the best Hurwitz Courant Knopp Bieberbach etc and I would recommend to anyone to look through them More recent texts have emphasized connections with real analysis which is important but at the cost of exhibiting succinctly and clearly what is peculiar about complex analysis the power series expansion the uniqueness of analytic continuation and the calculus of residues *Undergraduate Algebra* Serge Lang, 2013-06-29 This book together with Linear Algebra constitutes a curriculum for an algebra program addressed to undergraduates The separation of the linear algebra from the other basic algebraic structures fits all existing tendencies affecting undergraduate teaching and I agree with these tendencies I have made the present book self contained logically but it is probably better if students take the linear algebra course before being introduced to the more abstract notions of groups rings and fields and the systematic development of their basic abstract properties There is of course a little overlap with the book Linear Algebra since I wanted to make the present book self contained I define vector spaces matrices and linear maps and prove their basic properties The present book could be used for a one term course or a year's course possibly combining it with Linear Algebra I think it is important to do the field theory and the Galois theory more important say than to do much more group theory than we have done here There is a chapter on finite fields which exhibit both features from general field theory and special features due to characteristic p Such fields have become important in coding theory **A First Course in Calculus** Serge Lang, 2012-09-17 The purpose of a first course in calculus is to teach the student the basic notions of derivative and integral and the basic techniques and applications which accompany them The very talented students with an obvious aptitude for mathematics will rapidly require a course in functions of one real variable more or less as it is understood by professional is not primarily addressed to them although mathematicians This book I hope they will be able to acquire from it a good introduction at an early age I have not written this course in the style I would use for an advanced monograph on sophisticated topics One writes an advanced monograph for oneself because one wants to give permanent form to one's vision of some beautiful part of mathematics not otherwise accessible somewhat in the manner of a composer setting down his symphony in musical notation This book is written for the students to give them an immediate and pleasant access to the subject I hope that I have struck a proper compromise

between dwelling too much on special details and not giving enough technical exercises necessary to acquire the desired familiarity with the subject In any case certain routine habits of sophisticated mathematicians are unsuitable for a first course Rigor This does not mean that so called rigor has to be abandoned

Introduction to Linear Algebra Serge Lang, 2012-12-06 This is a short text in linear algebra intended for a one term course In the first chapter Lang discusses the relation between the geometry and the algebra underlying the subject and gives concrete examples of the notions which appear later in the book He then starts with a discussion of linear equations matrices and Gaussian elimination and proceeds to discuss vector spaces linear maps scalar products determinants and eigenvalues The book contains a large number of exercises some of the routine computational type while others are conceptual

Summaries of Projects Completed in Fiscal Year ..., **Summaries of Projects Completed** National Science Foundation (U.S.), **Summaries of Projects Completed in Fiscal Year ...** National Science Foundation (U.S.), 1979

Algebra Serge Lang, 2005-06-21 This book is intended as a basic text for a one year course in algebra at the graduate level or as a useful reference for mathematicians and professionals who use higher level algebra This book successfully addresses all of the basic concepts of algebra For the new edition the author has added exercises and made numerous corrections to the text From MathSciNet's review of the first edition The author has an impressive knack for presenting the important and interesting ideas of algebra in just the right way and he never gets bogged down in the dry formalism which pervades some parts of algebra

Collected Papers III Serge Lang, 2000-07-19 Serge Lang is not only one of the top mathematicians of our time but also an excellent writer He has made innumerable and invaluable contributions in diverse fields of mathematics and was honoured with the Cole Prize by the American Mathematical Society as well as with the Prix Carriere by the French Academy of Sciences Here 83 of his research papers are collected in four volumes ranging over a variety of topics of interest to many readers *American Scientist*, 1942

Collected Papers II Serge Lang, 2000-05-19 Serge Lang is not only one of the top mathematicians of our time but also an excellent writer He has made innumerable and invaluable contributions in diverse fields of mathematics and was honoured with the Cole Prize by the American Mathematical Society as well as with the Prix Carriere by the French Academy of Sciences Here 83 of his research papers are collected in four volumes ranging over a variety of topics of interest to many readers

Real and Functional Analysis Serge Lang, 2012-12-06 This book is meant as a text for a first year graduate course in analysis Any standard course in undergraduate analysis will constitute sufficient preparation for its understanding for instance my Undergraduate Analysis I assume that the reader is acquainted with notions of uniform convergence and the like In this third edition I have reorganized the book by covering integration before functional analysis Such a rearrangement fits the way courses are taught in all the places I know of I have added a number of examples and exercises as well as some material about integration on the real line e g on Dirac sequence approximation and on Fourier analysis and some material on functional analysis e g the theory of the Gelfand transform in Chapter XVI These upgrade previous

exercises to sections in the text In a sense the subject matter covers the same topics as elementary calculus viz linear algebra differentiation and integration This time however these subjects are treated in a manner suitable for the training of professionals i e people who will use the tools in further investigations be it in mathematics or physics or what have you In the first part we begin with point set topology essential for all analysis and we cover the most important results

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