
Exploring the MIT Mathematics and EECS Curriculum Using Large Language Models

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Abstract

We curate a comprehensive dataset of 4,550 questions and solutions from problem sets, midterm exams, and final exams across all MIT Mathematics and Electrical Engineering and Computer Science (EECS) courses required for obtaining a degree. We evaluate the ability of large language models to fulfill the graduation requirements for any MIT major in Mathematics and EECS. Our results demonstrate that GPT-3.5 successfully solves a third of the entire MIT curriculum, while GPT-4, with prompt engineering, achieves a perfect solve rate on a test set excluding questions based on images. We fine-tune an open-source large language model on this dataset. We employ GPT-4 to automatically grade model responses, providing a detailed performance breakdown by course, question, and answer type. By embedding questions in a low-dimensional space, we explore the relationships between questions, topics, and classes and discover which questions and classes are required for solving other questions and classes through few-shot learning. Our analysis offers valuable insights into course prerequisites and curriculum design, highlighting language models’ potential for learning and improving Mathematics and EECS education.

Writing A Publishable Math Paper Mit Mathematics

James P. Howard, II, John F. Beyers



Writing A Publishable Math Paper Mit Mathematics:

The Best Writing on Mathematics 2016 Mircea Pitici, 2017-03-07 The year's finest mathematics writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2016 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates Here Burkard Polster shows how to invent your own variants of the Spot It card game Steven Strogatz presents young Albert Einstein's proof of the Pythagorean Theorem Joseph Dauben and Marjorie Senechal find a treasure trove of math in New York's Metropolitan Museum of Art and Andrew Gelman explains why much scientific research based on statistical testing is spurious In other essays Brian Greene discusses the evolving assumptions of the physicists who developed the mathematical underpinnings of string theory Jorge Almeida examines the misperceptions of people who attempt to predict lottery results and Ian Stewart offers advice to authors who aspire to write successful math books for general readers And there's much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

Scientific Style in English Marcelo Sampaio de Alencar, Thiago Tavares de Alencar, 2022-09-01 Style is a distinctive manner of expression in writing or speech The word evolved from Latin stilus an instrument for writing marking or incising such as something used by the ancients in writing on clay or waxed tablets It is the way in which something is said or done as distinguished from its substance Style is also a convention with respect to spelling punctuation capitalization and typographic arrangement and display followed in writing or printing Scientific Style in English aims to help students with the reading and writing of scientific and technical texts in English with a particular focus on style grammar and math It can be used by students and professionals with basic or intermediate understanding of the English language Technical topics discussed in the book include Scientific Style in English Mathematical Style in English Technical Style Stylistic Problems in English How to write Theses and Dissertations

The Best Writing on Mathematics 2015 Mircea Pitici, 2016-01-12 The year's finest writing on mathematics from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes

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section of the book deals with some of the influential mathematics departments in the United States Functioning as centers of research and training these departments played a major role in shaping the mathematical life in this country The second section deals with an extraordinary conference held at Princeton in 1946 to commemorate the university's bicentennial The influence of women in American mathematics the burgeoning of differential geometry in the last 50 years and discussions of the work of von Karman and Weiner are among other topics covered

Teaching and Learning Mathematics Online

James P. Howard, II, John F. Beyers, 2020-05-10 Online education has become a major component of higher education worldwide In mathematics and statistics courses there exists a number of challenges that are unique to the teaching and learning of mathematics and statistics in an online environment These challenges are deeply connected to already existing difficulties related to math anxiety conceptual understanding of mathematical ideas communicating mathematically and the appropriate use of technology Teaching and Learning Mathematics Online bridges these issues by presenting meaningful and practical solutions for teaching mathematics and statistics online It focuses on the problems observed by mathematics instructors currently working in the field who strive to hone their craft and share best practices with our professional community The book provides a set of standard practices improving the quality of online teaching and the learning of mathematics Instructors will benefit from learning new techniques and approaches to delivering content Features Based on the experiences of working educators in the field Assimilates the latest technology developments for interactive distance education Focuses on mathematical education for developing early mathematics courses

Abstracts of Papers

Presented to the American Mathematical Society American Mathematical Society, 2008 From Natural Philosophy to the Sciences David Cahan, 2003-09-15 During the 19th century much of the modern scientific enterprise took shape scientific disciplines were formed institutions and communities were founded and unprecedented applications to and interactions with other aspects of society and culture occurred taught us about this exciting time and identify issues that remain unexamined or require reconsideration They treat scientific disciplines biology physics chemistry the earth sciences mathematics and the social sciences in their specific intellectual and sociocultural contexts as well as the broader topics of science and medicine science and religion scientific institutions and communities and science technology and industry From Natural Philosophy to the Sciences should be valuable for historians of science but also of great interest to scholars of all aspects of 19th century life and culture

Modern Mathematics Facts On File, Incorporated, 2006 During the first half of the 20th century mathematics became an international discipline that led to major advances in science and technology Modern Mathematics 1900 to 1950 provides an eye opening introduction to those five historic decades by analyzing the advancement of the field through the accomplishments of 10 significant mathematicians From David Hilbert and Emmy Noether who introduced the infinite dimensional vector spaces and algebraic rings that bear their names to Norbert Wiener the founder of cybernetics this in depth volume is an excellent choice for libraries aiming to provide a range of resources covering the history of

mathematics **A History of Mathematics in the United States and Canada** David E. Zitarelli, Della Dumbaugh, Stephen F. Kennedy, 2022-07-28 This is the first truly comprehensive and thorough history of the development of a mathematical community in the United States and Canada This second volume starts at the turn of the twentieth century with a mathematical community that is firmly established and traces its growth over the next forty years at the end of which the American mathematical community is pre eminent in the world In the preface to the first volume of this work Zitarelli reveals his animating philosophy I find that the human factor lends life and vitality to any subject History of mathematics in the Zitarelli conception is not just a collection of abstract ideas and their development It is a community of people and practices joining together to understand perpetuate and advance those ideas and each other Telling the story of mathematics means telling the stories of these people their accomplishments and triumphs the institutions and structures they built their interpersonal and scientific interactions and their failures and shortcomings One of the most hopeful developments of the period 1900 1941 in American mathematics was the opening of the community to previously excluded populations Increasing numbers of women were welcomed into mathematics many of whom including Anna Pell Wheeler Olive Hazlett and Mayme Logsdon are profiled in these pages Black mathematicians were often systemically excluded during this period but in spite of the obstacles Elbert Frank Cox Dudley Woodard David Blackwell and others built careers of significant accomplishment that are described here The effect on the substantial community of European immigrants is detailed through the stories of dozens of individuals In clear and compelling prose Zitarelli Dumbaugh and Kennedy spin a tale accessible to experts general readers and anyone interested in the history of science in North America **Mathematical Lives** CLAUDIO

BARTOCCI, Renato Betti, Angelo Guerraggio, Roberto Lucchetti, 2010-10-01 Steps forward in mathematics often reverberate in other scientific disciplines and give rise to innovative conceptual developments or find surprising technological applications This volume brings to the forefront some of the proponents of the mathematics of the twentieth century who have put at our disposal new and powerful instruments for investigating the reality around us The portraits present people who have impressive charisma and wide ranging cultural interests who are passionate about defending the importance of their own research are sensitive to beauty and attentive to the social and political problems of their times What we have sought to document is mathematics central position in the culture of our day Space has been made not only for the great mathematicians but also for literary texts including contributions by two apparent interlopers Robert Musil and Raymond Queneau for whom mathematical concepts represented a valuable tool for resolving the struggle between soul and precision

Men in White Chris Raymond, 2024-08-13 An inspiring tale of teamwork and grit Men in White tells the story of the student athletes who launched one of the greatest comebacks in sports history rescuing a college football program gutted by scandal with a thrilling championship run Men in White chronicles every twist in this epic drama in the words of the young men who chose to stay and rebuild the Penn State football program in the tumultuous days months and years that followed

the Sandusky scandal Despite crippling NCAA sanctions blistering heat from the outraged media and radio silence from the adults in the school s administration these big hearted kids refused to back down With the once mighty program in free fall they put their personal fortunes on the line battling together through five will testing seasons to rehabilitate the program and its ideals culminating in the momentous come from behind victory against Wisconsin in the 2016 Big Ten Championship Game Their story echoes that of the 1980 U S Olympic hockey team a cast of young men colossal underdogs who boldly accepted the challenge of a lifetime soaring to victory while shouldering the weight of a bruising political drama

Compositionality in Formal Semantics Barbara H. Partee,2008-04-15 Compositionality in Formal Semantics is a collection of Barbara Partee s papers that have been influential in the field but are not readily available and includes a new introductory essay in which Partee reflects on how her thinking and the field of semantics have developed over the past 35 years Brings together in one volume influential but difficult to find papers by one of the most important researchers in formal semantics Includes a new introductory essay in which Partee reflects on how her research and the field of semantics have developed over the past 35 years Discusses critical themes in semantic theory *Teaching Mathematics Creatively* Linda Pound,Trisha Lee,2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom **(Free version) Abacus & Mental Arithmetic Course Book** Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class *Catalogue, Books and Journals in Advanced Mathematics* American Mathematical Society,1985

Selected Papers Joseph L. Walsh,2000-02-11 This volume is a selection from the 281 published papers of Joseph Leonard Walsh former US Naval Officer and professor at University of Maryland and Harvard University The nine broad

sections are ordered following the evolution of his work Commentaries and discussions of subsequent development are appended to most of the sections Also included is one of Walsh s most influential works A closed set of normal orthogonal function which introduced what is now known as Walsh Functions **Algebraists' Homage: Papers in Ring Theory and Related Topics** Shimshon A. Amitsur, David J. Saltman, George B. Seligman, 1982

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