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## MATHEMATICS

0580/3-1

Paper 3 (Core)

May/June 2015

2 hours

Candidates answer on the Question Paper.

#### Additional Materials

Electronic calculator

### Geometrical Instruments

Tracing paper (optional)

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES

Answer all questions.

If working is needed for any question it must be shown below that question.

Electronic calculators should be used.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For  $\pi$ , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [ ] at the end of each question or part question.

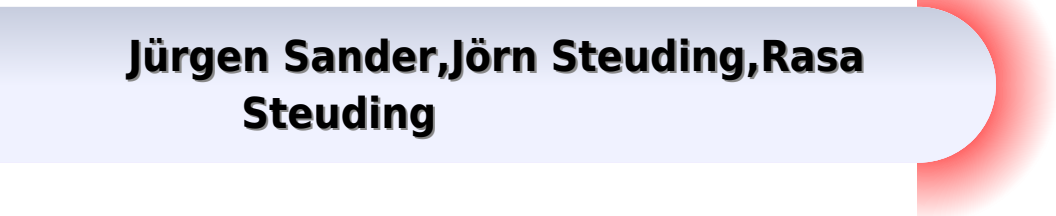
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# Maths Cambridge 2013 Paper 1

**Jürgen Sander, Jörn Steuding, Rasa  
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## Maths Cambridge 2013 Paper 1:

Handbook of Research on the Role of Human Factors in IT Project Management Misra, Sanjay, Adewumi, Adewole, 2019-09-27 The role humans play in the field of information technology continues to hold relevance even with the industry's rapid growth. People contribute heavily to the physical, cognitive, and organizational domain of computing, yet there is a lack of exploration into this phenomenon. Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data. The Handbook of Research on the Role of Human Factors in IT Project Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology. While highlighting topics including digitalization, risk management, and task analysis, this book is ideally designed for IT professionals, managers, support executives, project managers, managing directors, academicians, researchers, and students seeking current research on the dynamics of human influence in technological projects. *The Computer Supported Collaborative Learning (CSCL) Conference 2013, Volume 1* ISLS, 2014-04-23 The Computer Supported Collaborative Learning CSCL Conference 2013 proceedings Volume 1 **Oxford, Cambridge, and Dublin Messenger of Mathematics**, 1906 Building Bridges II Imre Bárány, Gyula O. H. Katona, Attila Sali, 2020-02-04 This volume collects together research and survey papers written by invited speakers of the conference celebrating the 70th birthday of László Lovász. The topics covered include classical subjects such as extremal graph theory, coding theory, design theory, applications of linear algebra, and combinatorial optimization, as well as recent trends such as extensions of graph limits, online or statistical versions of classical combinatorial problems, and new methods of derandomization. László Lovász is one of the pioneers in the interplay between discrete and continuous mathematics and is a master at establishing unexpected connections, building bridges between seemingly distant fields. His invariably elegant and powerful ideas have produced new subfields in many areas, and his outstanding scientific work has defined and shaped many research directions in the last 50 years. The 14 contributions presented in this volume, all of which are connected to László Lovász's areas of research, offer an excellent overview of the state of the art of combinatorics and related topics and will be of interest to experienced specialists as well as young researchers. *Operator Theory in Harmonic and Non-commutative Analysis* Joseph A. Ball, Michael A. Dritschel, A.F.M. ter Elst, Pierre Portal, Denis Potapov, 2014-06-21 This book contains the proceedings of the 23rd International Workshop on Operator Theory and its Applications (IWOTA 2012) which was held at the University of New South Wales, Sydney, Australia, from 16 July to 20 July 2012. It includes twelve articles presenting both surveys of current research in operator theory and original results. **Handbook of Enumerative Combinatorics** Miklos Bona, 2015-03-24 Presenting the state of the art, the Handbook of Enumerative Combinatorics brings together the work of today's most prominent researchers. The contributors survey the methods of combinatorial enumeration along with the most frequent applications of these methods. This important new work is edited by Miklos Bona of the University of Florida, where he *Geometric and*

*Spectral Analysis* Pierre Albin, Dmitry Jakobson, Frédéric Rochon, 2014-12-01 In 2012 the Centre de Recherches Mathématiques was at the center of many interesting developments in geometric and spectral analysis with a thematic program on Geometric Analysis and Spectral Theory followed by a thematic year on Moduli Spaces Extremality and Global Invariants This volume contains original contributions as well as useful survey articles of recent developments by participants from three of the workshops organized during these programs Geometry of Eigenvalues and Eigenfunctions held from June 4-8 2012 Manifolds of Metrics and Probabilistic Methods in Geometry and Analysis held from July 2-6 2012 and Spectral Invariants on Non compact and Singular Spaces held from July 23-27 2012 The topics covered in this volume include Fourier integral operators eigenfunctions probability and analysis on singular spaces complex geometry Kähler Einstein metrics analytic torsion and Strichartz estimates This book is co published with the Centre de Recherches Mathématiques *Open Problems in Algebraic Combinatorics* Christine Berkesch, Benjamin Brubaker, Gregg Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics **The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties** Steve Chinn, 2014-11-20 Mathematics plays an important part in every person's life so why isn't everyone good at it The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties brings together commissioned pieces by a range of hand-picked influential international authors from a variety of disciplines all of whom share a high public profile More than fifty experts write about mathematics learning difficulties and disabilities from a range of perspectives and answer questions such as What are mathematics learning difficulties and disabilities What are the key skills and concepts for learning mathematics How will IT help now and in the future What is the role of language and vocabulary How should we teach mathematics By posing notoriously difficult questions such as these and studying the answers The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties is the authoritative volume and is essential reading for academics in the field of mathematics It is an incredibly important contribution to the study of dyscalculia and mathematical difficulties in children and young adults **An Invitation to Analytic Combinatorics** Stephen Melczer, 2020-12-22 This book uses new mathematical tools to examine broad computability and complexity questions in enumerative combinatorics with applications

to other areas of mathematics theoretical computer science and physics A focus on effective algorithms leads to the development of computer algebra software of use to researchers in these domains After a survey of current results and open problems on decidability in enumerative combinatorics the text shows how the cutting edge of this research is the new domain of Analytic Combinatorics in Several Variables ACSV The remaining chapters of the text alternate between a pedagogical development of the theory applications including the resolution by this author of conjectures in lattice path enumeration which resisted several other approaches and the development of algorithms The final chapters in the text show through examples and general theory how results from stratified Morse theory can help refine some of these computability questions Complementing the written presentation are over 50 worksheets for the SageMath and Maple computer algebra systems working through examples in the text

**Concepts of Proof in Mathematics, Philosophy, and Computer Science** Dieter Probst, Peter Schuster, 2016-07-25 A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community It is this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science Proofs thus are utterly relevant for research teaching and communication in mathematics and of particular interest for the philosophy of mathematics In computer science moreover proofs have proved to be a rich source for already certified algorithms This book provides the reader with a collection of articles covering relevant current research topics circled around the concept proof It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects addressing foundational issues induced by Hilbert's Programme and the benefits of the arising formal notions of proof without neglecting reasoning in natural language proofs and applications in computer science such as program extraction

**Continuous Symmetries and Integrability of Discrete Equations** Decio Levi, Pavel Winternitz, Ravil I. Yamilov, 2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries The book contains three chapters and five appendices The first chapter is an introduction to the general ideas about symmetries lattices differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The appendices provide details which may help the readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are

interested in the study of symmetries and integrability of difference equations      *Mathematical Paradigms of Climate Science* Fabio Ancona, Piermarco Cannarsa, Christopher Jones, Alessandro Portaluri, 2016-11-07 This book featuring a truly interdisciplinary approach provides an overview of cutting edge mathematical theories and techniques that promise to play a central role in climate science It brings together some of the most interesting overview lectures given by the invited speakers at an important workshop held in Rome in 2013 as a part of MPE2013 Mathematics of Planet Earth 2013 The aim of the workshop was to foster the interaction between climate scientists and mathematicians active in various fields linked to climate sciences such as dynamical systems partial differential equations control theory stochastic systems and numerical analysis Mathematics and statistics already play a central role in this area Likewise computer science must have a say in the efforts to simulate the Earth's environment on the unprecedented scale of petabytes In the context of such complexity new mathematical tools are needed to organize and simplify the approach The growing importance of data assimilation techniques for climate modeling is amply illustrated in this volume which also identifies important future challenges

Topics in Hyperplane Arrangements Marcelo Aguiar, Swapneel Mahajan, 2017-11-22 This monograph studies the interplay between various algebraic geometric and combinatorial aspects of real hyperplane arrangements It provides a careful organized and unified treatment of several recent developments in the field and brings forth many new ideas and results It has two parts each divided into eight chapters and five appendices with background material Part I gives a detailed discussion on faces flats chambers cones gallery intervals lunes and other geometric notions associated with arrangements The Tits monoid plays a central role Another important object is the category of lunes which generalizes the classical associative operad Also discussed are the descent and lune identities distance functions on chambers and the combinatorics of the braid arrangement and related examples Part II studies the structure and representation theory of the Tits algebra of an arrangement It gives a detailed analysis of idempotents and Peirce decompositions and connects them to the classical theory of Eulerian idempotents It introduces the space of Lie elements of an arrangement which generalizes the classical Lie operad This space is the last nonzero power of the radical of the Tits algebra It is also the socle of the left ideal of chambers and of the right ideal of Zie elements Zie elements generalize the classical Lie idempotents They include Dynkin elements associated to generic half spaces which generalize the classical Dynkin idempotent Another important object is the lune incidence algebra which marks the beginning of noncommutative Möbius theory These ideas are also brought upon the study of the Solomon descent algebra The monograph is written with clarity and in sufficient detail to make it accessible to graduate students It can also serve as a useful reference to experts      **From Arithmetic to Zeta-Functions** Jürgen Sander, Jörn Steuding, Rasa Steuding, 2016-12-29 This book collects more than thirty contributions in memory of Wolfgang Schwarz most of which were presented at the seventh International Conference on Elementary and Analytic Number Theory ELAZ held July 2014 in Hildesheim Germany Ranging from the theory of arithmetical functions to diophantine problems to

analytic aspects of zeta functions the various research and survey articles cover the broad interests of the well known number theorist and cherished colleague Wolfgang Schwarz 1934-2013 who contributed over one hundred articles on number theory its history and related fields Readers interested in elementary or analytic number theory and related fields will certainly find many fascinating topical results among the contributions from both respected mathematicians and up and coming young researchers In addition some biographical articles highlight the life and mathematical works of Wolfgang Schwarz

Mathematical Aspects of Computer and Information Sciences Daniel Slamanig, Elias Tsigaridas, Zafeirakis Zafeirakopoulos, 2020-03-18 This book constitutes the refereed proceedings of the 8th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2019 held in Gebze Turkey in November 2019 The 22 revised papers and 14 short papers presented were carefully reviewed and selected from 66 submissions The papers are organized in the following topical sections algorithms and foundation security and cryptography combinatorics codes designs and graphs data modeling and machine learning tools and software track

Professional Development of Mathematics Teachers Berinderjeet Kaur, Oh Nam Kwon, Yew Hoong Leong, 2016-11-14 This book offers a counterpart to the extensive corpus of literature available on the same topic from a Western perspective It showcases innovative approaches to professional development of mathematics teachers in Asian countries and reports on both empirical and expository studies of teachers professional development in these countries It provides scholars from non English speaking and under represented Asian countries the opportunity to engage in discourse with other scholars in the field and is the first book to present substantial contributions from scholars in Asia on the professional development of mathematics teachers in their respective countries It includes perspectives that shed valuable light on how the approaches pursued in Asian countries resemble or differ from those in the West

Recent Advances in Computational Optimization Stefka Fidanova, 2018-09-18 Our everyday lives are practically unthinkable without optimization We constantly try to minimize our effort and to maximize the reward or progress achieved Many real world and industrial problems arising in engineering economics medicine and other domains can be formulated as optimization tasks This volume presents a comprehensive collection of extended contributions from the 2017 Workshop on Computational Optimization Presenting recent advances in computational optimization it addresses important concrete applications e g the modeling of physical processes wildfire modeling modeling processes in chemical engineering workforce planning wireless access network topology parameter settings for controlling various processes berth allocation identification of homogeneous domains and quantum computing The book shows how to develop algorithms for them based on new intelligent methods like evolutionary computations ant colony optimization constrain programming and others

**Farey Sequences** Andrey O. Matveev, 2017-11-07 As a first comprehensive overview on Farey sequences and subsequences this monograph is intended as a reference for anyone looking for specific material or formulas related to the subject Duality of subsequences and maps between them are discussed and explicit proofs are shown in detail From the

Content Basic structural and enumerative properties of Farey sequences Collective decision making Committee methods in pattern recognition Farey duality Farey sequence Fundamental Farey subsequences Monotone bijections between Farey subsequences     Supporting Early Mathematical Development Caroline McGrath, 2025-10-14 Supporting Early Mathematical Development is an essential text combining theory and practice to enable successful mathematical education for children from birth to 12 years This text considers how students academics parents and professionals can develop their mathematical thinking practice whilst acknowledging there will always be a road yet to travel we will always be practising the craft of teaching mathematics Charting the delivery of mathematical development in playgroups children s centres nurseries and primary schools the book promotes an effective pedagogy for mathematics This new edition provides a conceptualisation of mathematics and places a fresh emphasis on mathematical literacy to empower children New chapters include the following Mediators of Mathematical Thinking Understanding Pattern Pre Algebraic and Algebraic Thinking Naming Renaming and Processing Numbers Statistics Statistical Diagrams and Probability Measure Geometry Throughout the book Caroline McGrath navigates the complexity of teaching and learning mathematics through careful thought and consideration of mediators of mathematical thinking This supportive book is designed for educators who want to know how to reconstruct mathematical ideas with children and respond in the moment Returning to the root of understanding using the adaptive pedagogical style recommended in this text you can create satisfying mathematical experiences for children



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