



MARKS: 60

This memorandum consists of 3 pages.

Important information:

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.
3. CA refers to consistent accuracy. See clarification in question 8.1

Question	Expected Answer	Clarification	Mark allocation	Total
1.	1.1 B ✓		1	8
	1.2 D ✓		1	
	1.3 C ✓		1	
	1.4 B ✓		1	
	1.5 C ✓		1	
	1.6 B ✓		1	
	1.7 A ✓		1	
	1.8 B ✓		1	
2.	2.1 33 755 ✓		1	2
	2.2 100 000 ✓		1	
3.	200 000 or 2 Hundred Thousand or 2HTh ✓		1	1
4.	< ✓		1	1
5.	9 ✓		1	1
6.	19 ✓	(Rule 3 = $2 \times 1 + 1$ $5 = 2 \times 2 + 1$ $7 = 2 \times 3 + 1$ $19 = 2 \times 9 + 1$ $25 = (51-1) \div 2$	1	2
	25 ✓		1	
7.	7.1 True ✓		1	
	7.2 False ✓		1	
	7.3 True ✓		1	3
8.	8.1 $\begin{array}{r} 11\,523 \\ 21\,275 \\ + 7\,356 \\ \hline 40\,154 \end{array}$ ✓ or $\begin{array}{l} 11\,523 = 10\,000 + 1\,000 + 500 + 20 + 3 \\ 21\,275 = 20\,000 + 1\,000 + 200 + 70 + 5 \\ + 7\,356 = 7\,000 + 300 + 50 + 6 \\ \hline \text{Sum} = 40\,000 + \quad + 100 + 50 + 4 \\ = 40\,154 \end{array}$ ✓ or $\begin{array}{l} 10\,000 + 1\,000 + 500 + 20 + 3 + 20\,000 + 1\,000 + 200 + \\ 70 + 5 + 7\,000 + 300 + 50 + 6 \\ = 10\,000 + 20\,000 + 1\,000 + 1\,000 + 7\,000 + 500 + 200 \\ + 300 + 20 + 70 + 50 + 3 + 5 + 6 \\ = 40\,000 + 100 + 50 + 4 \\ = 40\,154 \end{array}$ ✓	Arrangement of values: 1 mark Correct answer: 1 mark $\begin{array}{r} 11\,523 \\ 21\,275 \quad X \\ + 7\,356 \\ \hline 106\,358 \end{array}$ ✓ 1 mark for CA	2	2
	8.2 $\begin{array}{r} 69\,157 \\ -17\,239 \\ \hline 51\,918 \end{array}$ ✓	Arrangement of values: 1 mark Correct answer: 1 mark	2	

Pure Mathematics November 2013 Memorandum

**Georgios Lampropoulos, Stamatios
Papadakis**



Pure Mathematics PNovember 2013 Memorandum:

Axiomatics Alma Steingart, 2023-01-17 The first history of postwar mathematics offering a new interpretation of the rise of abstraction and axiomatics in the twentieth century Why did abstraction dominate American art social science and natural science in the mid twentieth century Why despite opposition did abstraction and theoretical knowledge flourish across a diverse set of intellectual pursuits during the Cold War In recovering the centrality of abstraction across a range of modernist projects in the United States Alma Steingart brings mathematics back into the conversation about midcentury American intellectual thought The expansion of mathematics in the aftermath of World War II she demonstrates was characterized by two opposing tendencies research in pure mathematics became increasingly abstract and rarified while research in applied mathematics and mathematical applications grew in prominence as new fields like operations research and game theory brought mathematical knowledge to bear on more domains of knowledge Both were predicated on the same abstractionist conception of mathematics and were rooted in the same approach modern axiomatics For American mathematicians the humanities and the sciences did not compete with one another but instead were two complementary sides of the same epistemological commitment Steingart further reveals how this mathematical epistemology influenced the sciences and humanities particularly the postwar social sciences As mathematics changed so did the meaning of mathematization Axiomatics focuses on American mathematicians during a transformative time following a series of controversies among mathematicians about the nature of mathematics as a field of study and as a body of knowledge The ensuing debates offer a window onto the postwar development of mathematics and Cold War epistemology writ large As Steingart's history ably demonstrates mathematics is the social activity in which styles of truth here abstraction become synonymous with ways of knowing

Curvature: A Variational Approach A. Agrachev, D. Barilari, L. Rizzi, 2019-01-08 The curvature discussed in this paper is a far reaching generalization of the Riemannian sectional curvature The authors give a unified definition of curvature which applies to a wide class of geometric structures whose geodesics arise from optimal control problems including Riemannian sub Riemannian Finsler and sub Finsler spaces Special attention is paid to the sub Riemannian or Carnot-Carathéodory metric spaces The authors' construction of curvature is direct and naive and similar to the original approach of Riemann In particular they extract geometric invariants from the asymptotics of the cost of optimal control problems Surprisingly it works in a very general setting and in particular for all sub Riemannian spaces

Variations on a Theorem of Tate Stefan Patrikis, 2019-04-10 Let F be a number field These notes explore Galois theoretic automorphic and motivic analogues and refinements of Tate's basic result that continuous projective representations $\mathrm{Gal}(F/\mathbb{Q}) \rightarrow \mathrm{GL}_n(\mathbb{C})$ lift to $\mathrm{GL}_n(\mathbb{C})$ The author takes special interest in the interaction of this result with algebraicity for automorphic representations and geometricity in the sense of Fontaine-Mazur On the motivic side the author studies refinements and generalizations of the classical Kuga-Satake construction Some auxiliary results touch on possible

infinity types of algebraic automorphic representations comparison of the automorphic and Galois Tannakian formalisms
monodromy independence of questions for abstract Galois representations **Social Robots in Education** Georgios

Lampropoulos,Stamatios Papadakis,2025-05-03 This book focuses on recent advances in the field of social robots and their integration in education It elaborates on the progressive evolution of human robot interaction and educational robotics the emergence of digital pedagogy and the implementation of personalized learning methodologies The book also examines the use of artificial intelligence AI in education through the lenses of social robots Hence the book offers an overview of recent research into the adoption integration advancements and impact of social robots and AI in education and presents guidelines and suggestions on how to integrate them in classrooms Specifically the book Provides an in depth overview of social robots and their use in education Presents the advances of social robots and AI in education Showcases innovative solutions and outcomes of integrating social robots in classrooms Discusses the challenges benefits and future research directions of using social robots and AI in education *Generalized Descriptive Set Theory and Classification Theory* Sy-David Friedman,Tapani

Hyttinen, Vadim Kulikov,2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences In this paper the authors study the generalization where countable is replaced by uncountable They explore properties of generalized Baire and Cantor spaces equivalence relations and their Borel reducibility The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations The authors results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations Direct and Inverse

Scattering at Fixed Energy for Massless Charged Dirac Fields by Kerr-Newman-de Sitter Black Holes Thierry Daudé,François Nicoleau,2017-04-25 In this paper the authors study the direct and inverse scattering theory at fixed energy for massless charged Dirac fields evolving in the exterior region of a Kerr Newman de Sitter black hole In the first part they establish the existence and asymptotic completeness of time dependent wave operators associated to our Dirac fields This leads to the definition of the time dependent scattering operator that encodes the far field behavior with respect to a stationary observer in the asymptotic regions of the black hole the event and cosmological horizons The authors also use the miraculous property quoting Chandrasekhar that the Dirac equation can be separated into radial and angular ordinary differential equations to make the link between the time dependent scattering operator and its stationary counterpart This leads to a nice expression of the scattering matrix at fixed energy in terms of stationary solutions of the system of separated equations In a second part the authors use this expression of the scattering matrix to study the uniqueness property in the associated inverse scattering problem at fixed energy Using essentially the particular form of the angular equation that can be solved explicitly by Frobenius method and the Complex Angular Momentum technique on the radial equation the authors are finally able to

determine uniquely the metric of the black hole from the knowledge of the scattering matrix at a fixed energy

The Role of Advection in a Two-Species Competition Model: A Bifurcation Approach Isabel Averill, King-Yeung Lam, Yuan Lou, 2017-01-18 The effects of weak and strong advection on the dynamics of reaction diffusion models have long been studied In contrast the role of intermediate advection remains poorly understood For example concentration phenomena can occur when advection is strong providing a mechanism for the coexistence of multiple populations in contrast with the situation of weak advection where coexistence may not be possible The transition of the dynamics from weak to strong advection is generally difficult to determine In this work the authors consider a mathematical model of two competing populations in a spatially varying but temporally constant environment where both species have the same population dynamics but different dispersal strategies one species adopts random dispersal while the dispersal strategy for the other species is a combination of random dispersal and advection upward along the resource gradient For any given diffusion rates the authors consider the bifurcation diagram of positive steady states by using the advection rate as the bifurcation parameter This approach enables the authors to capture the change of dynamics from weak advection to strong advection The authors determine three different types of bifurcation diagrams depending on the difference of diffusion rates Some exact multiplicity results about bifurcation points are also presented The authors results can unify some previous work and as a case study about the role of advection also contribute to the understanding of intermediate relative to diffusion advection in reaction diffusion models

Hypercontractivity in Group von Neumann Algebras Marius Junge, Carlos Palazuelos, Javier Parcet, Mathilde Perrin, 2017-09-25 In this paper the authors provide a combinatorial numerical method to establish new hypercontractivity estimates in group von Neumann algebras They illustrate their method with free groups triangular groups and finite cyclic groups for which they obtain optimal time hypercontractive inequalities with respect to the Markov process given by the word length and with an even integer Interpolation and differentiation also yield general hypercontractivity for via logarithmic Sobolev inequalities The authors method admits further applications to other discrete groups without small loops as far as the numerical part which varies from one group to another is implemented and tested on a computer The authors also develop another combinatorial method which does not rely on computational estimates and provides non optimal hypercontractive inequalities for a larger class of groups lengths including any finitely generated group equipped with a conditionally negative word length like infinite Coxeter groups The authors second method also yields hypercontractivity bounds for groups admitting a finite dimensional proper cocycle Hypercontractivity fails for conditionally negative lengths in groups satisfying Kazhdan's property T

Breaking Teleprinter Ciphers at Bletchley Park James A. Reeds, Whitfield Diffie, J. V. Field, 2015-07-07 This book is an edition of the General Report on Tunny with commentary that clarifies the often difficult language of the GRT and fitting it into a variety of contexts arising out of several separate but intersecting story lines some only implicit in the GRT Explores the likely roots of the ideas entering into the Tunny cryptanalysis Includes examples

of original worksheets and printouts of the Tunny breaking process in action Presents additional commentary biographies glossaries essays and bibliographies Knot Invariants and Higher Representation Theory Ben Webster,2018-01-16 The author constructs knot invariants categorifying the quantum knot variants for all representations of quantum groups He shows that these invariants coincide with previous invariants defined by Khovanov for sl and sl and by Mazorchuk Stroppel and Sussan for sl The author's technique is to study 2 representations of 2 quantum groups in the sense of Rouquier and Khovanov Lauda categorifying tensor products of irreducible representations These are the representation categories of certain finite dimensional algebras with an explicit diagrammatic presentation generalizing the cyclotomic quotient of the KLR algebra When the Lie algebra under consideration is sl the author shows that these categories agree with certain subcategories of parabolic category for gl A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials Florica C. Cîrstea,2014-01-08 In particular for $b = 1$ and 0 we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of $\Delta u = 1$ thus addressing an open question of Vazquez and Vron *The Cognitive Sciences* Carolyn P. Sobel,Paul Li,2013-01-17 This engagingly written introduction to the cognitive sciences examines the historical and contemporary issues and research findings of the core cognitive science disciplines including cognitive psychology neuroscience language philosophy and artificial intelligence For each of the core disciplines of cognitive science the historical development and classic research studies are presented in one chapter and current research development and issues follow in a second chapter The student is given insight into the way each discipline has contributed to the growth of cognitive science and what directions research is taking in the future This text assumes no background on the part of the reader **Operator-Valued Measures, Dilations, and the Theory of Frames** Deguang Han, David R. Larson,Bei Liu,Rui Liu,2014-04-07 The authors develop elements of a general dilation theory for operator valued measures Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian In the non cb case the dilation space often needs to be a Banach space They give applications to both the discrete and the continuous frame theory There are natural associations between the theory of frames including continuous frames and framings the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal i.e ultraweakly or weakly or w continuous Feasible Mathematics II Peter Clote,Jeffrey B. Remmel,2013-03-13 Perspicuity is part of proof If the process by means of which I get a result were not surveyable I might indeed make a note that this number is what comes out but what fact is this supposed to confirm for me I don't know what is supposed to come out 1 L Wittgenstein A feasible computation uses small resources on an abstract computation device such

as a Turing machine or boolean circuit Feasible mathematics concerns the study of feasible computations using combinatorics and logic as well as the study of feasibly presented mathematical structures such as groups algebras and so on This volume contains contributions to feasible mathematics in three areas computational complexity theory proof theory and algebra with substantial overlap between different fields In computational complexity theory the polynomial time hierarchy is characterized without the introduction of runtime bounds by the closure of certain initial functions under safe composition predicative recursion on notation and unbounded minimization S Bellantoni an alternative way of looking at NP problems is introduced which focuses on which parameters of the problem are the cause of its computational complexity and completeness density and separation collapse results are given for a structure theory for parametrized problems R Downey and M Fellows new characterizations of PTIME and LINEAR SPACE are given using predicative recurrence over all finite tiers of certain stratified free algebras D

Active Particles, Volume 1 Nicola Bellomo, Pierre Degond, Eitan

Tadmor, 2017-04-06 This volume collects ten surveys on the modeling simulation and applications of active particles using methods ranging from mathematical kinetic theory to nonequilibrium statistical mechanics The contributing authors are leading experts working in this challenging field and each of their chapters provides a review of the most recent results in their areas and looks ahead to future research directions The approaches to studying active matter are presented here from many different perspectives such as individual based models evolutionary games Brownian motion and continuum theories as well as various combinations of these Applications covered include biological network formation and network theory opinion formation and social systems control theory of sparse systems theory and applications of mean field games population learning dynamics of flocking systems vehicular traffic flow and stochastic particles and mean field approximation Mathematicians and other members of the scientific community interested in active matter and its many applications will find this volume to be a timely authoritative and valuable resource

Algebraic Geometry: Salt Lake City 2015 Richard Thomas, 2018-06-01 This is Part 2 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting

articles will be important references in these areas for years to come

Combinatorial Floer Homology Vin de Silva, Joel W. Robbin, Dietmar A. Salamon, 2014-06-05 The authors define combinatorial Floer homology of a transverse pair of noncontractible nonisotopic embedded loops in an oriented manifold without boundary prove that it is invariant under isotopy and prove that it is isomorphic to the original Lagrangian Floer homology Their proof uses a formula for the Viterbo Maslov index for a smooth lune in a manifold

Brandt Matrices and Theta Series over Global Function Fields Chih-Yun Chuang, Ting-Fang Lee, Fu-Tsun Wei, Jing Yu, 2015-08-21 The aim of this article is to give a complete account of the Eichler Brandt theory over function fields and the basis problem for Drinfeld type automorphic forms Given arbitrary function field k together with a fixed place the authors construct a family of theta series from the norm forms of definite quaternion algebras and establish an explicit Hecke module homomorphism from the Picard group of an associated definite Shimura curve to a space of Drinfeld type automorphic forms The compatibility of these homomorphisms with different square free levels is also examined These Hecke equivariant maps lead to a nice description of the subspace generated by the authors theta series and thereby contributes to the so called basis problem Restricting the norm forms to pure quaternions the authors obtain another family of theta series which are automorphic functions on the metaplectic group and this results in a Shintani type correspondence between Drinfeld type forms and metaplectic forms

Large Deviations for Additive Functionals of Markov Chains Alejandro D. de Acosta, Peter Ney, 2014-03-05

Formality of the Little N -disks Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when

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In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Pure Mathematics Pnovember 2013 Memorandum**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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