



MARKS: 50

This memorandum consists of 5 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 7.1.

Question		Expected Answer	Clarification	Mark allocation	Total																
1.	1.1	D✓		1	6																
	1.2	B✓		1																	
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2.		$(32 + 25) + 16 = (25 + 16) ✓$		1	1																
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6.	6.1	<table border="1"><tr><td>R20,00</td><td>R10,00</td><td>R5,00</td><td>R2,00</td><td>R1,00</td><td>50c</td><td>20c</td><td>10c</td></tr><tr><td>✓</td><td></td><td>✓</td><td></td><td>✓</td><td>✓</td><td>✓</td><td></td></tr></table>	R20,00	R10,00	R5,00	R2,00	R1,00	50c	20c	10c	✓		✓		✓	✓	✓			1	2
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6.2	Change = R50,00 – R26,70 = R23,30 ✓		1																		

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Teaching and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step A Multiplicative Tate Spectral Sequence for Compact Lie Group Actions Alice Hedenlund, John Rognes, 2024-03-18 View the abstract

Asymptotic Geometric Analysis, Part II Shiri Artstein-Avidan, Apostolos Giannopoulos, Vitali D. Milman, 2021-12-13 This book is a continuation of Asymptotic Geometric Analysis Part I which was published as volume 202 in this series Asymptotic geometric analysis studies properties of geometric objects such as normed spaces convex bodies or convex functions when the dimensions of these objects increase to infinity The asymptotic approach reveals many very novel phenomena which influence other fields in mathematics especially where a large data set is of main concern or a number of parameters which becomes uncontrollably large One of the important features of this new theory is in developing tools which allow studying high parametric families Among the topics covered in the book are measure concentration isoperimetric constants of log concave measures thin shell estimates stochastic localization the geometry of Gaussian measures volume inequalities for convex bodies local theory of Banach spaces type and cotype the Banach Mazur compactum symmetrizations restricted invertibility and functional versions of geometric notions and inequalities *Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro* James W. Cogdell, Freydoon Shahidi, David Soudry, 2014-04-01 This volume contains the proceedings of the conference Automorphic Forms and Related Geometry Assessing the Legacy of I I Piatetski Shapiro held from April 23 27 2012 at Yale University New Haven CT Ilya I Piatetski Shapiro who passed away on 21 February 2009 was a leading figure in the theory of automorphic forms The conference attempted both to summarize and consolidate the progress that was made during Piatetski Shapiro s lifetime by him and a substantial group of his co workers and to promote future work by identifying fruitful directions of further investigation It was organized around several themes that reflected Piatetski Shapiro s main foci of work and that have promise for future development functoriality and converse theorems local and global functions and their periods adic functions and arithmetic geometry complex geometry and analytic number theory In each area there were talks to review the current state of affairs with special attention to Piatetski Shapiro s

contributions and other talks to report on current work and to outline promising avenues for continued progress The contents of this volume reflect most of the talks that were presented at the conference as well as a few additional contributions They all represent various aspects of the legacy of Piatetski Shapiro

The Golden Anniversary Celebration of the National Association of Mathematicians Omayra Ortega,Emille Davie Lawrence,Edray Herber Goins,2020-12-10 This volume is put together by the National Association of Mathematicians to commemorate its 50th anniversary The articles in the book are based on lectures presented at several events at the Joint Mathematics Meeting held from January 16 19 2019 in Baltimore Maryland including the Claytor Woodard Lecture as well as the NAM David Harold Blackwell Lecture which was held on August 2 2019 in Cincinnati Ohio

Free Boundary Problems via Da Prato?Grisvard Theory Rapha%l Danchin,Matthias Hieber,Piotr Bogus?aw Mucha,Patrick Tolksdorf,2025-08-01 View the abstract

Analysis, Complex Geometry, and Mathematical Physics Paul M. N. Feehan,Jian Song, Ben Weinkove,Richard A. Wentworth,2015-07-21 This volume contains the proceedings of the Conference on Analysis Complex Geometry and Mathematical Physics In Honor of Duong H Phong which was held from May 7 11 2013 at Columbia University New York The conference featured thirty speakers who spoke on a range of topics reflecting the breadth and depth of the research interests of Duong H Phong on the occasion of his sixtieth birthday A common thread familiar from Phong s own work was the focus on the interplay between the deep tools of analysis and the rich structures of geometry and physics Papers included in this volume cover topics such as the complex Monge Amp re equation pluripotential theory geometric partial differential equations theories of integral operators integrable systems and perturbative superstring theory

Vertex Algebras and Geometry Thomas Creutzig,Andrew R. Linshaw,2018-07-20 This book contains the proceedings of the AMS Special Session on Vertex Algebras and Geometry held from October 8 9 2016 and the mini conference on Vertex Algebras held from October 10 11 2016 in Denver Colorado The papers cover vertex algebras in connection with geometry and tensor categories with topics in vertex rings chiral algebroids the Higgs branch conjecture and applicability and use of vertex tensor categories

The Mathematics of Shuffling Cards Persi Diaconis,Jason Fulman,2023-03-20 This book gives a lively development of the mathematics needed to answer the question How many times should a deck of cards be shuffled to mix it up The shuffles studied are the usual ones that real people use riffle overhand and smooshing cards around on the table The mathematics ranges from probability Markov chains to combinatorics symmetric function theory to algebra Hopf algebras There are applications to magic tricks and gambling along with a careful comparison of the mathematics to the results of real people shuffling real cards The book explores links between shuffling and higher mathematics Lie theory algebraic topology the geometry of hyperplane arrangements stochastic calculus number theory and more It offers a useful springboard for seeing how probability theory is applied and leads to many corners of advanced mathematics The book can serve as a text for an upper division course in mathematics statistics or computer science departments and will be appreciated by graduate

students and researchers in mathematics statistics and computer science as well as magicians and people with a strong background in mathematics who are interested in games that use playing cards

Trees of Hyperbolic Spaces Michael Kapovich, Pranab Sardar, 2024-08-15 This book offers an alternative proof of the Bestvina Feighn combination theorem for trees of hyperbolic spaces and describes uniform quasigeodesics in such spaces As one of the applications of their description of uniform quasigeodesics the authors prove the existence of Cannon Thurston maps for inclusion maps of total spaces of subtrees of hyperbolic spaces and of relatively hyperbolic spaces They also analyze the structure of Cannon Thurston laminations in this setting Furthermore some group theoretic applications of these results are discussed This book also contains background material on coarse geometry and geometric group theory

Igusa's p -Adic Local Zeta Function and the Monodromy Conjecture for Non-Degenerate Surface Singularities Bart Bories, Willem Veys, 2016-06-21 In 2011 Lemahieu and Van Proeyen proved the Monodromy Conjecture for the local topological zeta function of a non degenerate surface singularity The authors start from their work and obtain the same result for Igusa's p -adic and the motivic zeta function In the p -adic case this is for a polynomial $f \in \mathbb{Z}[x, y, z]$ satisfying $f(0, 0, 0) = 0$ and non degenerate with respect to its Newton polyhedron we show that every pole of the local p -adic zeta function of f induces an eigenvalue of the local monodromy of f at some point of $f^{-1}(0) \subset \mathbb{C}^3$ close to the origin Essentially the entire paper is dedicated to proving that for f as above certain candidate poles of Igusa's p -adic zeta function of f arising from so called B_1 facets of the Newton polyhedron of f are actually not poles This turns out to be much harder than in the topological setting The combinatorial proof is preceded by a study of the integral points in three dimensional fundamental parallelepipeds Together with the work of Lemahieu and Van Proeyen this main result leads to the Monodromy Conjecture for the p -adic and motivic zeta function of a non degenerate surface singularity

p -Adic Analysis, Arithmetic and Singularities Carlos Galindo, Alejandro Melle Hernández, Julio José

Moyano-Fernández, Wilson A. Zúñiga-Galindo, 2022-05-11 This volume contains the proceedings of the 2019 Lluís A Santal Summer School on p -Adic Analysis Arithmetic and Singularities which was held from June 24-28 2019 at the Universidad Internacional Menéndez Pelayo Santander Spain The main purpose of the book is to present and analyze different incarnations of the local zeta functions and their multiple connections in mathematics and theoretical physics Local zeta functions are ubiquitous objects in mathematics and theoretical physics At the mathematical level local zeta functions contain geometry and arithmetic information about the set of zeros defined by a finite number of polynomials In terms of applications in theoretical physics these functions play a central role in the regularization of Feynman amplitudes and Koba-Nielsen type string amplitudes among other applications This volume provides a gentle introduction to a very active area of research that lies at the intersection of number theory p -adic analysis algebraic geometry singularity theory and theoretical physics Specifically the book introduces p -adic analysis the theory of Archimedean p -adic and motivic zeta functions singularities of plane curves and their Poincaré series among other similar topics It also contains original contributions in the aforementioned

areas written by renowned specialists This book is an important reference for students and experts who want to delve quickly into the area of local zeta functions and their many connections in mathematics and theoretical physics Common Nonsense Kabembo Chinku, 2012-09 It s almost a universal phenomenon Nobody knows when how and why it started but society somehow allows their political leaders to get away with nearly anything up to and including murder at least in many countries in Asia Eastern Europe Africa and Central and South America Here in these United States of America no one is suggesting at least not me that our political leaders are guilty of committing murders To the extent that anybody can accuse them of such it s their enacting of lax gun laws at the behest of the NRA Thanks to these laws anyone applying for a permit to buy an automatic assault weapon is no more subjected to rigorous background check than they are buying candy By this and this alone U S politicians are partly to blame in the deaths of innocent people Anyway this book is not about murders or guns In a way though it s about death the death of reason and sense in politics It s about some insidious behavior that politicians get away with Society itself is to blame for tacitly permitting politicians to engage in such a behavior So here in the United States as is the case everywhere politicians get away with too much Corruption lying or showing a disdain for facts being lazy stealing and cheating on their spouses We also allow them to make promises that they can t possibly keep or never keeping promises that they can easily keep We have put the bar for tolerable behaviors or conduct expected of our leaders very low We have reached a stage where the moral code of our politicians is on par with if not worse than that of criminals Well this author decided to draw a line a red line if you want to be dramatic on dumbassness or rather on the dumb things that the people we look up to in society especially our political leaders say They can get away with lying being corrupt etc but they will not be let off so easily for saying things that are decidedly dumb Just as Iran will hear from Israel and the U S if its nuclear or as George W Bush would say nuclear ambitions crosses Israeli Prime Minister Benjamin Netanyahu s somewhat arbitrary red line politicians here will hear from me if and when they cross my own arbitrarily laid dumbassness red line Like most citizens I ll tolerate barely such maladapted behaviors of our politicians as corruption cheating infidelity lying not keeping campaign promises etc but not dumbassness This is what this book is about This author s blood boils when he hears these stupid politicians like Indiana s U S Senate candidate Richard Mourdock say such things as A woman being raped and conceiving as a result is in God s grand scheme of things That is God wanted it that way and therefore that the victim shouldn t be allowed to terminate such a pregnancy Unlike most books this is not one long continuous story One need not necessarily start reading from page one or chapter one successively to the last One can jump around or even begin with the last chapter Every chapter is a stand alone chapter There is no continuity to worry about if you decide to read the book in a sort of haphazard manner You re going to encounter unbelievable dumbassness of our politicians on every page Politicians and other leaders of society may get away with having the morals and ethics of alley cats but I ll be damned if I ll let them get away with the immaturity of pre adolescents and the dumbassness of a jackass This is my raison d etre or if you want to be

religious about it it s my calling Let me add that had my sense of self preservation not been so heightened I d have moved to Russia to take on Emperor Vladimir Putin But I don t like having Polonium 210 as part of my diet Thank you and enjoy Kabembo Chinku

Global Logarithmic Deformation Theory Simon Felten,2025-09-26 This monograph provides the first systematic treatment of the logarithmic Bogomolov Tian Todorov theorem Providing a new perspective on classical results this theorem guarantees that logarithmic Calabi Yau spaces have unobstructed deformations Part I develops the deformation theory of curved Batalin Vilkovisky calculi and the abstract unobstructedness theorems which hold in quasi perfect curved Batalin Vilkovisky calculi Part II presents background material on logarithmic geometry families of singular log schemes and toroidal crossing spaces Part III establishes the connection between the geometric deformation theory of log schemes and the purely algebraic deformation theory of curved Batalin Vilkovisky calculi The last Part IV explores applications to the Gross Siebert program to deformation problems of log smooth and log toroidal log Calabi Yau spaces as well as to deformations of line bundles and deformations of log Fano spaces Along the way a comprehensive introduction to the logarithmic geometry used in the Gross Siebert program is given This monograph will be useful for graduate students and researchers working in algebraic and complex geometry in particular in the study of deformation theory degenerations moduli spaces and mirror symmetry

Lie Algebras, Vertex Operator Algebras, and Related Topics Katrina Barron,Elizabeth Jurisich,Antun Milas,Kailash Misr,2017-08-15 This volume contains the proceedings of the conference on Lie Algebras Vertex Operator Algebras and Related Topics celebrating the 70th birthday of James Lepowsky and Robert Wilson held from August 14 18 2015 at the University of Notre Dame Notre Dame Indiana Since their seminal work in the 1970s Lepowsky and Wilson their collaborators their students and those inspired by their work have developed an amazing body of work intertwining the fields of Lie algebras vertex algebras number theory theoretical physics quantum groups the representation theory of finite simple groups and more The papers presented here include recent results and descriptions of ongoing research initiatives representing the broad influence and deep connections brought about by the work of Lepowsky and Wilson and include a contribution by Yi Zhi Huang summarizing some major open problems in these areas in particular as they pertain to two dimensional conformal field theory

Low-Rank and Sparse Modeling for Visual Analysis Yun Fu,2014-10-30 This book provides a view of low rank and sparse computing especially approximation recovery representation scaling coding embedding and learning among unconstrained visual data The book includes chapters covering multiple emerging topics in this new field It links multiple popular research fields in Human Centered Computing Social Media Image Classification Pattern Recognition Computer Vision Big Data and Human Computer Interaction Contains an overview of the low rank and sparse modeling techniques for visual analysis by examining both theoretical analysis and real world applications

An Age of Accountability John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest

to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment. The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools. This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize. But even after very clear disappointments no other policy framework has emerged to challenge its hegemony. The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector. As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree.

Handbook Of Mathematical Science Communication Anna Maria Hartkopf, Erin Henning, 2022-12-28 Mathematical science communication as well as the field of science communication in general has gained momentum over the last few decades. Mathematical science communication aims to inform the public about contemporary research, enhance factual and methodological knowledge, and foster a greater interest and support for the science of mathematics. This enables the public to apply it to their practical life and to decision making on a greater scale. These objectives are met in the various formats and media through which mathematical science communication is brought to the public. The first 13 chapters of the book consist of best practice examples from the areas of informal math education, museums and exhibitions, and the arts. The final 5 chapters discuss the structural aspects of mathematical science communication and contribute to the basis for its theoretical framework.

Breadth in Contemporary Topology David T. Gay, Weiwei Wu, 2019-06-27 This volume contains the proceedings of the 2017 Georgia International Topology Conference held from May 22 to June 2, 2017, at the University of Georgia, Athens, Georgia. The papers contained in this volume cover topics ranging from symplectic topology to classical knot theory to topology of 3 and 4 dimensional manifolds to geometric group theory. Several papers focus on open problems while other papers present new and insightful proofs of classical results. Taken as a whole, this volume captures the spirit of the conference both in terms of public lectures and informal conversations and presents a sampling of some of the great new ideas generated in topology over the preceding eight years.

Functional Analysis, Harmonic Analysis, and Image Processing Michael Cwikel, Mario Milman, 2017-07-26 This volume is dedicated to the memory of Björn Jawerth. It contains original research contributions and surveys in several of the areas of mathematics to which Björn made important contributions. Those areas include harmonic analysis, image processing, and functional analysis, which are of course interrelated in many significant and productive ways. Among the contributors are some of the world's leading experts in these areas. With its combination of research papers and surveys, this book may become an important reference and research tool. This book should be of interest to advanced graduate students and professional researchers in the areas of functional analysis, harmonic analysis, image processing, and approximation theory. It combines articles presenting new research with insightful surveys written by foremost experts.

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