

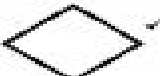


MARKS: 50

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																	
	1.3	B✓		1																	
	1.4	A✓		1																	
	1.5	D✓		1																	
	1.6	C✓		1																	
2.		$(32 + 25) + 18 = (25 + \underline{18})$ ✓		1	1																
3.	3.1	1 000 ✓		1	2																
	3.2			1																	
4.		7 ✓		1	1																
5.		< ✓		1	1																
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
	R20,00	R10,00	R5,00	R2,00	R1,00	50c	20c	10c													
✓		✓		✓	✓	✓															
6.2	Change = R50,00 – R26,70 = R23,30 ✓		1																		

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Multicultural Instructional Design: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-07-05 As the world becomes more globalized student populations in educational settings will continue to grow in diversity To ensure students develop the cultural competence to adapt to new environments educational institutions must develop curriculum policies and programs to aid in the progression of cultural acceptance and understanding Multicultural Instructional Design Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on inclusive curriculum development for multicultural learners It also examines the interaction between culture and learning in academic environments and the efforts to mediate it through various educational venues Highlighting a range of topics such as intercultural communication student diversity and language skills this multi volume book is ideally designed for educators professionals school administrators researchers and practitioners in the field of education

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Analytic Trends in Mathematical Physics Houssam Abdul-Rahman, Robert Sims, Amanda Young, 2020-01-06 This volume contains the proceedings of the Arizona School of Analysis and Mathematical Physics held from March 5 9 2018 at the University of Arizona Tucson Arizona A main goal of this school was to introduce graduate students and postdocs to exciting topics of current research that are both influenced by physical intuition and require the use of cutting edge mathematics The articles in this volume reflect recent progress and innovative techniques developed within mathematical physics Two works investigate spectral gaps of quantum spin systems Specifically Abdul Rahman Lemm Lucia Nachtergaele and Young consider decorated AKLT models and Lemm demonstrates a finite size criterion for D dimensional models Bachmann De Roeck and Fraas summarize a recent proof of the adiabatic theorem while Bachmann Bols De Roeck and Fraas discuss linear response for interacting Hall insulators Models on general graphs are the topic of the articles by Fischbacher on higher spin XXZ and by Latushkin and Sukhtaiev on an index theorem for Schrödinger operators Probabilistic applications are the focus of the articles by DeMase and Yin on exponential random graphs by Saenz on KPZ universality and by Stolz on disordered quantum spin chains In all the diversity represented here is a testament to the enthusiasm this rich field of mathematical physics generates

Advances in Harmonic Analysis and Partial Differential Equations Donatella Danielli, Irina Mitrea, 2020-04-09 This volume contains the proceedings of the AMS Special Session on Harmonic Analysis and Partial Differential Equations held from April 21 22 2018 at Northeastern University Boston Massachusetts The book features a series of recent developments at the interface between harmonic analysis and partial differential equations and is aimed toward the theoretical and applied communities of researchers working in real complex and harmonic analysis partial differential equations and their applications The topics covered belong to the general areas of the theory of function spaces partial differential equations of elliptic parabolic and dissipative types geometric optics free boundary problems and ergodic

theory and the emphasis is on a host of new concepts methods and results **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 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

Davenport-Zannier Polynomials and Dessins d'Enfants Nikolai M. Adrianov,Fedor Pakovich,Alexander K. Zvonkin,2020-06-29 The French expression dessins d'enfants means children's drawings This term was coined by the great French mathematician Alexandre Grothendieck in order to denominate a method of pictorial representation of some highly interesting classes of polynomials and rational functions The polynomials studied in this book take their origin in number theory The authors show how by drawing simple pictures one can prove some long standing conjectures and formulate new ones The theory presented here touches upon many different fields of mathematics The major part of the book is quite elementary and is easily accessible to an undergraduate student The less elementary parts such as Galois theory or group representations and their characters would need a more profound knowledge of mathematics The reader may either take the basic facts of these theories for granted or use our book as a motivation and a first approach to these subjects Wireless Communications Keith Q. T. Zhang,2015-12-14 Understand the mechanics of wireless communication Wireless Communications Principles Theory and Methodology offers a detailed introduction to the technology Comprehensive and well rounded coverage includes signaling transmission and detection including the mathematical and physics principles that underlie the technology's mechanics Problems with modern wireless communication are discussed in the context of applied skills and the various approaches to solving these issues offer students the opportunity to test their understanding in a practical manner With in depth explanations and a practical approach to complex material this book provides students with a clear understanding of wireless communication technology **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 **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-Ampère equation pluripotential theory geometric partial differential equations theories of integral operators integrable systems and perturbative superstring theory

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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