basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

NOVEMBER 2012

FINAL MEMORANDUM

MARKS: 150

Symbol	Explanation
M	Method
M/A	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG	Reading from a table/Reading from a graph
SF	Correct substitution in a formula
O	Opinion/Example
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off

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1. If a candidate deletes a solution to a question without providing another solution, then the deleted solution must be marked.
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This memorandum consists of 15 pages.

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Georgios Lampropoulos,Stamatios Papadakis

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stochastic effects The author considers a Moran model describing the evolution of a population of size of chromosomes of length over an alphabet of cardinality The mutation probability per locus is He deals only with the sharp peak landscape the replication rate is for the master sequence and for the other sequences He studies the equilibrium distribution of the process in the regime where   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 counties 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   **Game Theory and Applications** Deng-Feng Li,Xiao-Guang Yang,Marc Uetz,Gen-Jiu Xu,2017-10-13 This volume constitutes the refereed post conference proceedings of the 3rd Joint China Dutch Workshop on Game Theory and Applications and the 7th China Meeting on Game Theory and Applications GTA 2016 held in Fuzhou China in November 2016 The 25 revised full papers presented were carefully reviewed and selected from 60 full paper submissions They deal with a broad range of topics in the areas of non cooperative and cooperative games non cooperative and cooperative games under uncertainty and their applications   **Irreducible Almost Simple Subgroups of Classical Algebraic Groups** Timothy C. Burness,Soumaia Ghandour,Claude Marion,Donna M. Testerman,2015-06-26 Let be a simple classical algebraic group over an algebraically closed field of characteristic with natural module Let be a closed subgroup of and let be a nontrivial restricted irreducible tensor indecomposable rational module such that the restriction of to is irreducible In this paper the authors classify the triples of this form where and is a disconnected almost simple positive dimensional closed subgroup of acting irreducibly on Moreover by combining this result with earlier work they complete the classification of the irreducible triples where is a simple algebraic group over and is a maximal closed subgroup of positive dimension   *Mayor Michael Bloomberg* Lynne A. Weikart,2021-09-15 In Mayor Michael Bloomberg Lynne A Weikart dives into the mayoralty of Michael Bloomberg offering an incisive analysis of Bloomberg s policies during his 2002 2014 tenure as mayor of New York and highlighting his impact on New York City politics Michael Bloomberg became mayor of New York just four months after the 9 11 terrorist destruction of the World Trade Center and he lead the rebuilding of a physically and emotionally devastated city so well that within two years the city had budget surpluses Weikart reveals how state and federal governments constrained Bloomberg s efforts to set municipal policy and implement his strategic goals in the areas of homelessness low income housing poverty education and crime External powers of state and federal governments are strong currents and Bloomberg s navigation of these

currents often determined the outcome of his efforts Weikart evaluates Michael Bloomberg s mayoral successes and failures in the face of various challenges externally the constraints of state government and mandates imposed by federal and state courts and internally the impasse between labor unions and Bloomberg Weikart identifies and explores both the self created restrictions of Mayor Bloomberg s own management style and the courage of Mike Bloomberg s leadership **Thinking and Acting Systemically** Alan Daly,Kara Finnigan,2016-05-19 This volume argues that districts are important as a lever for change given the limited success of school by school efforts Policies that focus on skill development recognize and support performance create opportunities for collaboration build leader capacity and create networks of knowledge sharing hold great potential for improving districts but it will require a paradigm shift in the way we view our public school system and those who work within it away from blame and toward complext systems change *Local Entropy Theory of a Random Dynamical System* Anthony H. Dooley, Guohua Zhang,2014-12-20 In this paper the authors extend the notion of a continuous bundle random dynamical system to the setting where the action of R or N is replaced by the action of an infinite countable discrete amenable group Given such a system and a monotone sub additive invariant family of random continuous functions they introduce the concept of local fiber topological pressure and establish an associated variational principle relating it to measure theoretic entropy They also discuss some variants of this variational principle The authors introduce both topological and measure theoretic entropy tuples for continuous bundle random dynamical systems and apply variational principles to obtain a relationship between these of entropy tuples Finally they give applications of these results to general topological dynamical systems recovering and extending many recent results in local entropy theory **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 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 **Symposium Transsonicum II** K. Oswatitsch,D. Rues,2012-12-06 The first Symposium Transsonicum took pl ace in Aachen thirteen years ago during a period of decreasing governmental and industrial support for transonic flow research Since then there has been a strong revival in interest in transonic flow research so that the number of partici pants at the second symposium remained about the same as at the first even in spite of tight financial means and Limited governmental support During both meetings the number of participants reached the upper Limit of the number desirabl e for such a symposium Participants came from aU over the worl d and there was a weU bal anced distribution of participants from aU countries interested in transonic flow research The discussions mostLy conducted in EngLish were stimul ating and there was a great deal of interest in the l ectures as was shown by the good attendance even during the l ast session on Saturday morning *Situational Awareness in Computer Network Defense: Principles, Methods and Applications* Onwubiko, Cyril,Owens, Thomas,2012-01-31 This book provides academia and organizations insights into practical and applied solutions frameworks technologies and implementations for situational awareness in computer networks Provided by publisher Graph Theory in America Robin Wilson,John J. Watkins,David J. Parks,2023-01-17 How a new mathematical field grew and matured in America Graph Theory in America focuses on the development of graph theory in North America from 1876 to 1976 At the beginning of this period James Joseph Sylvester perhaps the finest mathematician in the English speaking world took up his appointment as the first professor of mathematics at the Johns Hopkins University where his inaugural lecture outlined connections between graph theory algebra and chemistry shortly after he introduced the word graph in our modern sense A hundred years later in 1976 graph theory witnessed the solution of the long standing four color problem by Kenneth Appel and Wolfgang Haken of the University of Illinois Tracing graph theory s trajectory across its first century this book looks at influential figures in the field both familiar and less known Whereas many of the featured mathematicians spent their entire careers working on problems in graph theory a few such as Hassler Whitney started there and then moved to work in other areas Others such as C S Peirce Oswald Veblen and George Birkhoff made excursions into graph theory while continuing their focus elsewhere Between the main chapters the book provides short contextual interludes describing how the American university system developed and how graph theory was progressing in Europe Brief summaries of specific publications that influenced the subject s development are also included Graph Theory in America tells how a remarkable area of mathematics landed on American soil took root and flourished *Something Incredibly Wonderful Happens* K. C. Cole,2012-08-15 Cole a friend and colleague of Frank

Oppenheimer s for many years has drawn from letters documents and extensive interviews to write a very personal story of the man whose irrepressible spirit would inspire so many **Interior, Environment, and Related Agencies Appropriations for 2018** United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies,2017 *Lees' Loss Prevention in the Process Industries* Frank Lees,2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources **Digital Technology and the Practices of Humanities Research** Jennifer Edmond,2020-01-30 How does technology impact research practices in the humanities How does digitisation shape scholarly identity How do we negotiate trust in the digital realm What is scholarship what forms can it take and how does it acquire authority This diverse set of essays demonstrate the importance of asking such questions bringing together established and emerging scholars from a variety of disciplines at a time when data is increasingly being incorporated as an input and output in humanities sources and publications Major themes addressed include the changing nature of scholarly publishing in a digital age the different kinds of gate keepers for scholarship and the difficulties of effectively assessing the impact of digital resources The essays bring theoretical and practical perspectives into conversation offering readers not only comprehensive examinations of past and present discourse on digital scholarship but tightly focused case studies This timely volume illuminates the different forces underlying the shifting practices in humanities research today with especial focus on how humanists take ownership of and are empowered by technology in unexpected ways Digital Technology and the Practices of Humanities Research is essential reading for scholars students and general readers interested in the changing culture of research practices in the humanities and in the future of the digital humanities on the whole

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