



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/
NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

MAY/JUNE 2023

MARKS: 150

TIME: 3 hours

The question paper consists of 9 pages and 1 information sheet.



FULL MEMO

GRADE 12

MATHEMATICS

PAPER 1

NSC JUNE 2023



25 September 2014 Maths Memorandum

Dan Meyer



25 September 2014 Maths Memorandum:

The Leader's Guide to Working with Underperforming Teachers Sally J Zepeda, 2016-03-10 Under increasing pressure in the face of teacher evaluation systems and accountability measures schools must focus on those teachers that exhibit marginal to incompetent teaching behaviors in their classrooms This book is a vital resource for educational leaders who are responsible for instructional programs and teacher evaluation Zepeda s tried and true strategies will help you take the necessary steps to support and mentor struggling teachers by detecting underperformance developing strategies to help teachers engaging in difficult conversations to enact plans of improvement and following legal requirements The practical tools found in this book will help teachers improve their instruction assessment classroom management and teamwork

Abelian Properties of Anick Spaces Brayton Gray, 2017-02-20 Anick spaces are closely connected with both EHP sequences and the study of torsion exponents In addition they refine the secondary suspension and enter unstable periodicity This work describes their space properties as well as universal properties Techniques include a new kind on Whitehead product defined for maps out of co H spaces calculations in an additive category that lies between the unstable category and the stable category and a controlled version of the extension theorem of Gray and Theriault Geom Topol 14 2010 no 1 243

275 **Upside Down** Dan Meyer, 2016-03-28 We the People have had it pretty good since WWII Our prosperity has resulted in our collective apathy toward the corrupt progression of what once were servants of the People into life long career politicians in Washington D C who have become our elite political ruling class Power corrupts and absolute power corrupts absolutely Today in our United States we have an all powerful central government enabled by a subservient media propelling our nation toward the living hell described in George Orwell s 1984 where truth cannot be found where freedom does not exist Upside Down clearly defines the immediate action We the People can and must take to restore what used to be our government of by and for the people If we choose to continue to sit on the sidelines and not get involved we will transition from apathy to dependence and out of that dependence will come the bondage from which we rose 239 years ago *The*

Australia-ASEAN Dialogue S. Wood, B. He, 2014-10-23 This book examines the Australia ASEAN Dialogue Partnership since its inception in 1974 and looks at the networks of engagement that have shaped relations across three areas regionalism non traditional security and economic engagement *Knots, Links, Spatial Graphs, and Algebraic Invariants* Erica

Flapan, Allison Henrich, Aaron Kaestner, Sam Nelson:, 2017-05-19 This volume contains the proceedings of the AMS Special Session on Algebraic and Combinatorial Structures in Knot Theory and the AMS Special Session on Spatial Graphs both held from October 24 25 2015 at California State University Fullerton CA Included in this volume are articles that draw on techniques from geometry and algebra to address topological problems about knot theory and spatial graph theory and their combinatorial generalizations to equivalence classes of diagrams that are preserved under a set of Reidemeister type moves The interconnections of these areas and their connections within the broader field of topology are illustrated by articles

about knots and links in spatial graphs and symmetries of spatial graphs in and other 3 manifolds **Monoidal Categories and the Gerstenhaber Bracket in Hochschild Cohomology** Reiner Hermann:,2016-09-06 In this monograph the author extends S Schwede s exact sequence interpretation of the Gerstenhaber bracket in Hochschild cohomology to certain exact and monoidal categories Therefore the author establishes an explicit description of an isomorphism by A Neeman and V Retakh which links Ext groups with fundamental groups of categories of extensions and relies on expressing the fundamental group of a small category by means of the associated Quillen groupoid As a main result the author shows that his construction behaves well with respect to structure preserving functors between exact monoidal categories The author uses his main result to conclude that the graded Lie bracket in Hochschild cohomology is an invariant under Morita equivalence For quasi triangular bialgebras he further determines a significant part of the Lie bracket s kernel and thereby proves a conjecture by L Menichi Along the way the author introduces n extension closed and entirely extension closed subcategories of abelian categories and studies some of their properties **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 **Automorphisms of Manifolds and Algebraic \$K\$-Theory: Part III** Michael S. Weiss, Bruce E. Williams,2014-08-12 The structure space of a closed topological manifold classifies bundles whose fibers are closed manifolds equipped with a homotopy equivalence to The authors construct a highly connected map from to a concoction of algebraic theory and algebraic theory spaces associated with The construction refines the well known surgery theoretic analysis of the block structure space of in terms of theory **Comparative handbook: robotic technologies law** Alain Bensoussan,Jérémy Bensoussan,2016-06-28 Studies of the overall impact of robotics on the

economy have shown that investments in its various sectors industrial professional and service robotics are increasing globally and the markets associated with them are valued in billions Robotization improves the competitiveness of enterprises while collaborative robotics reinvents methods of production Beyond the economic outlook service robotics backed by the development of artificial intelligence raises challenging ethical and social issues The legal analysis of robotics is no mean feat because it covers a very diverse technical reality Companies whose businesses are focused on robotic technologies and applications can be confronted with a complex legal situation resulting from the plurality of the applicable rules which have not necessarily been conceived or adopted bearing in mind their specific constraints This situation should not hamper their development It only implies taking cues from the economic legal norms which promote such developments and conducting an analysis of the legal risks which they face given the applicable rules of liability This comparative study carried out by members of the Lexing Network proposes an overview having regard to the legislation of 17 different countries of the legal issues raised by robotics and the way the law in force responds in a more or less satisfactory manner Discover the authors contributors in details under the tab Extraits

African Americans in Science, Math, and Invention Ray Spangenburg,Diane Moser,Douglas Long,2014-05-14 The astronauts physicists chemists biologists agriculture specialists and others who have dedicated their lives to improving humankind s knowledge and understanding of the universe through science math and invention are Critical Infrastructure Protection in Homeland Security Ted G. Lewis,2019-11-26 Covers critical infrastructure protection providing a rigorous treatment of risk resilience complex adaptive systems and sector dependence Wide in scope this classroom tested book is the only one to emphasize a scientific approach to protecting the key infrastructures components of a nation It analyzes the complex network of entities that make up a nation s infrastructure and identifies vulnerabilities and risks in various sectors by combining network science complexity theory risk analysis and modeling and simulation This approach reduces the complex problem of protecting water supplies energy pipelines telecommunication stations power grid and Internet and Web networks to a much simpler problem of protecting a few critical nodes The new third edition of Critical Infrastructure Protection in Homeland Security Defending a Networked Nation incorporates a broader selection of ideas and sectors than the previous book Divided into three sections the first part looks at the historical origins of homeland security and critical infrastructure and emphasizes current policy The second examines theory and foundations highlighting risk and resilience in the context of complexity theory network science and the prevailing theories of catastrophe The last part covers the individual sectors including communications internet cyber threats information technology social networks SCADA water and water treatment energy and more Covers theories of catastrophes details of how sectors work and how to deal with the problem of critical infrastructure protection s enormity and complexity Places great emphasis on computer security and whole community response Includes PowerPoint slides for use by lecturers as well as an instructor s guide with answers to exercises Offers five robust appendices that

augment the non mathematical chapters with more rigorous explanations and mathematics Critical Infrastructure Protection in Homeland Security Third Edition is an important book for upper division undergraduates and first year graduate students in political science history public administration and computer technology It will also be of great interest to professional security experts and policymakers

The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools

The Budget of the United States Government United States. Office of Management and Budget, 2015

Balancing Act United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs. Subcommittee on Oversight of Government Management, the Federal Workforce, and the District of Columbia, 2010

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

Empowering Science and Mathematics for Global Competitiveness Yuli Rahmawati, Peter Charles Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education

Algebraic Geometry over C^∞ -Rings Dominic Joyce, 2019-09-05 If X is a manifold then the R algebra $C(X)$ of smooth functions $c(X) \rightarrow R$ is a C ring That is for each smooth function $f \in R^n \rightarrow R$ there is an n fold operation $f : C(X)^n \rightarrow C(X)$ acting by $f(c_1, \dots, c_n) = f(c_1, \dots, c_n)$ and these operations f satisfy many natural identities Thus $C(X)$ actually has a far richer structure than the obvious R algebra structure The author explains the foundations of a version of algebraic geometry in which rings or algebras are replaced by C rings As schemes are the basic objects in algebraic geometry the new basic objects are C schemes a category of geometric objects which generalize manifolds and whose morphisms generalize smooth maps The author also studies quasicohherent sheaves on C schemes and C stacks in particular Deligne Mumford C stacks a 2 category of geometric objects generalizing orbifolds Many of these ideas are not new C rings and C schemes have long been part of synthetic differential geometry But the author develops them in new directions In earlier publications the author used these tools to define d manifolds and d orbifolds derived versions of manifolds and orbifolds related to Spivak's derived manifolds

Information Control Problems in Manufacturing Technology 1982 D. E. Hardt, 2014-05-17 Information Control Problems in Manufacturing Technology 1982 documents the proceedings of the 4th IFAC IFIP Symposium held in Maryland USA on 26-28 October 1982 The volume contains 27 papers divided into six sections The papers in Section 1 cover the various US government programs sponsoring manufacturing related research This support ranges from basic process physics research to general questions of artificial intelligence in the manufacturing environment At the heart of any manufacturing operation are the unit processes Proper control of these processes is vital to achieving the autonomy that will eventually lead to automated manufacturing systems Section 2 addresses these issues in terms of the general control problem involved and in the solution of specific processing problems Section 3 presents examples of both on and off line techniques that use novel methods of data acquisition and signal processing Section 4 focuses on the role of industrial robots

in advanced manufacturing systems It addresses fundamental questions of manipulator design and control and modelling of robot work environment The ability to integrate processes and robots into an efficient manufacturing system is truly the challenge of the future Section 5 deals with a wide range of such problems including planning scheduling inventory and decision systems Section 6 presents specific examples of fully automated manufacturing and assembly systems **Thailand** International Monetary Fund. Asia and Pacific Dept,2016-06-07 This paper discusses recent developments outlook and risk and policies required for a long lasting recovery of Thailand s economy Thailand remains resilient in the face of external and internal challenges However political uncertainty and structural bottlenecks cloud long term prospects The economy recovered in 2015 after a slowdown induced by political uncertainty Public investment supported economic activity particularly through community based infrastructure projects Monetary policy was eased in the face of below target inflation The credit cycle moderated but household debt reached a historic high Implementing high quality fiscal stimulus easing monetary policy and safeguarding financial sector stability can strengthen long term sustainability equity and efficiency of Thailand s economy **Economics for People and the Planet** James Boyce,2019-01-16 Economics for People and the Planet a collection of essays by James K Boyce on the environment inequality and the economy argues that there is not an inexorable trade off between advancing human well being and having a clean and safe environment The goal of economic policy should be to grow the good things that improve our well being and environmental quality and reduce the bad things that harm humans and nature To reorient the economy for these ends we will need to achieve a more egalitarian distribution of wealth and power Global climate change the most pressing environmental challenge of our time adds urgency to this task and creates historic opportunities for moving towards a greener future The audiobook version of Economics for People and the Planet features new chapters on the Green New Deal and the environmental costs of inequality Foreword by Manuel Pastor

25 September 2014 Maths Memorandum: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. 25 September 2014 Maths Memorandum : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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