



Education and Sport Development

Department of Education and Sport Development
Departement van Onderwys en Sport Ontwikkeling
Lefapha la Thuto le Tlhabololo ya Metshameko

NORTH WEST PROVINCE

GRADE 10

MATHEMATICS PAPER 1

MID YEAR EXAMINATION 2019 MEMORANDUM

MARKS: 75

This memorandum consists of 6 pages



NW/JUNE/MATH/ EMIS/6*****

Memorandum For Mathematics September 2013 Examination Paper

Yan Bai



Memorandum For Mathematics September 2013 Examination Paper:

Hitting Probabilities for Nonlinear Systems of Stochastic Waves Robert C. Dalang, Marta Sanz-Solé, 2015-08-21 The authors consider a d dimensional random field $u(t, x)$ that solves a non linear system of stochastic wave equations in spatial dimensions $k = 1, 2, 3$ driven by a spatially homogeneous Gaussian noise that is white in time They mainly consider the case where the spatial covariance is given by a Riesz kernel with exponent α Using Malliavin calculus they establish upper and lower bounds on the probabilities that the random field visits a deterministic subset of \mathbb{R}^d in terms respectively of Hausdorff measure and Newtonian capacity of this set The dimension that appears in the Hausdorff measure is close to optimal and shows that when $d \geq k + 1$ points are polar for u Conversely in low dimensions $d \leq k$ points are not polar There is however an interval in which the question of polarity of points remains open

Failure Vicki E. Alger, 2016-07-01 A comprehensive account and frank assessment of federal involvement in education is long overdue Education policy expert Vicki E Alger remedies this deficiency with her book *Failure: The Federal Miseducation of America's Children* As its title indicates *Failure* makes no effort to sugar coat its findings Created in 1979 after a lobbying campaign that spanned generations the Department of Education has failed to live up to its promises Federal involvement whether related to testing funding or academic curricula has failed to abide by the Constitution's implication that education must remain the domain only of state and local governments and private institutions Most of all the central government's pervasive meddling in education has failed America's school children and their parents Education policy has long been mired in controversies often with opposing sides missing the mark *Failure* helps us step back from the skirmish du jour and redirects our focus to the big picture showing us what's gone wrong over the decades and the institutional causes of these failures It also offers a bold blueprint for returning the federal government to its constitutional role and for cultivating an educational system that meets the needs of students and parents rather than bureaucrats Concerned citizens of every stripe will benefit from *Failure's* history of federal education policy its brutally honest report card for the Department of Education its look at education systems across the globe and its ambitious policy recommendations *Failure* might even succeed in reframing the way the federal education establishment thinks about education policy

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 Mathematical-Function Computation Handbook Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

What's Our Problem? Tim Urban,2023-02-21 From the creator of the wildly popular blog Wait But Why a fun and fascinating deep dive into what the hell is going on in our strange unprecedented modern times Between 2013 and 2016 Tim Urban became one of the world s most popular bloggers writing dozens of viral long form articles about everything from AI to colonizing Mars to procrastination Then he turned his attention to a new topic the society around him Why was everything such a mess Why was everyone acting like such a baby When did things get so tribal Why do humans do this stuff This massive topic sent Tim tumbling down his deepest rabbit hole yet through mountains of history evolutionary psychology

political theory neuroscience and modern day political movements as he tried to figure out the answer to a simple question What s our problem Six years later he emerged from the hole holding this book What s Our Problem is a deep and expansive analysis of our modern times in the classic style of Wait But Why packed with original concepts sticky metaphors and 300 drawings The book provides an entirely new framework and language for thinking and talking about today s complex world Instead of focusing on the usual left center right horizontal political axis which is all about what we think the book introduces a vertical axis that explores how we think as individuals and as groups Readers will find themselves on a delightful and fascinating journey that will ultimately change the way they see the world around them Anyway he wanted to say a lot more about all of this but there was a word limit on this book description so just go read the book **The History of Oxford**

University Press: Volume IV Keith Robbins,2017-05-19 The story of Oxford University Press spans five centuries of printing and publishing Beginning with the first presses set up in Oxford in the fifteenth century and the later establishment of a university printing house it leads through the publication of bibles scholarly works and the Oxford English Dictionary to a twentieth century expansion that created the largest university press in the world playing a part in research education and language learning in more than 50 countries With access to extensive archives the four volume History of OUP traces the impact of long term changes in printing technology and the business of publishing It also considers the effects of wider trends in education reading and scholarship in international trade and the spreading influence of the English language and in cultural and social history both in Oxford and through its presence around the world In the decades after 1970 Oxford University Press met new challenges but also a period of unprecedented growth In this concluding volume Keith Robbins and 21 expert contributors assess OUP s changing structure its academic mission and its business operations through years of economic turbulence and continuous technological change The Press repositioned itself after 1970 it brought its London Business to Oxford closed its Printing House and rapidly developed new publishing for English language teaching in regions far beyond its traditional markets Yet in an increasingly competitive worldwide industry OUP remained the department of a major British university sharing its commitment to excellence in scholarship and education The resulting opportunities and sometimes tensions are traced here through detailed consideration of OUP s business decisions the vast range of its publications and the dynamic role of its overseas offices Concluding in 2004 with new forms of digital publishing The History of OUP sheds new light on the cultural educational and business life of the English speaking world in the late twentieth century Drawing Futures Bob Sheil,Frédéric Migayrou,Luke Pearson,Laura Allen,2016-11-11

Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society

now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation Drawing Futures will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces ,1876
Congressional Record ,1881 *Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)* Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **Paperbound Books in Print** ,1992
Shell Aviation News ,1964 **Government Reports Announcements & Index** ,1989-04 **South African national bibliography** ,1988 Includes publications received in terms of Copyright Act no 9 of 1916 **Mathematics** S. L. Chu (Mathematics teacher),2024

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