

Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
SOLUTION NB: Accept valid alternate solutions. Consistent Accuracy applies to the whole memo.		
QUESTION 1		
1.1	$m_{HM} = \frac{6 - 4}{3 + 1}$ $= \frac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left(\frac{3 + 4}{2}; \frac{6 + 1}{2} \right)$ $= \left(\frac{7}{2}; \frac{7}{2} \right)$	✓ Correct Substitution ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan \theta = \frac{1}{2}$ $\theta = 26,57^\circ$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	<p>R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$.</p> $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ <p>$\therefore A(8; 3)$</p>	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ <p>Sub $T(4; 1)$</p>	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

March 2014 Mathematics Paper 1 Memorandum

Michel Janssen, Jürgen Renn



March 2014 Mathematics Paper 1 Memorandum:

A Power Law of Order $1/4$ for Critical Mean Field Swendsen-Wang Dynamics Yun Long, Asaf Nachmias, Weiyang Ning, Yuval Peres, 2014-09-29 Introduction Statement of the results Mixing time preliminaries Outline of the proof of Theorem 2.1 Random graph estimates Supercritical case Subcritical case Critical Case Fast mixing of the Swendsen Wang process on trees Acknowledgements Bibliography *Induction, Bounding, Weak Combinatorial Principles, and the Homogeneous Model Theorem* Denis R. Hirschfeldt, Karen Lange, Richard A. Shore, 2017-09-25 Goncharov and Peretyatkin independently gave necessary and sufficient conditions for when a set of types of a complete theory is the type spectrum of some homogeneous model of Their result can be stated as a principle of second order arithmetic which is called the Homogeneous Model Theorem HMT and analyzed from the points of view of computability theory and reverse mathematics Previous computability theoretic results by Lange suggested a close connection between HMT and the Atomic Model Theorem AMT which states that every complete atomic theory has an atomic model The authors show that HMT and AMT are indeed equivalent in the sense of reverse mathematics as well as in a strong computability theoretic sense and do the same for an analogous result of Peretyatkin giving necessary and sufficient conditions for when a set of types is the type spectrum of some model *Military Cost-Benefit Analysis* Francois Melese, Anke Richter, Binyam Solomon, 2015-03-27 This is the first comprehensive book on Military Cost Benefit Analysis and provides novel approaches to structuring cost benefit and affordability analysis amidst an uncertain defense environment and cloudy fiscal prospects Lifting the veil on military Cost Benefit Analysis this volume offers several new practical tools designed to guide defense investments and divestments combined with a selection of real world applications The widespread employment of Cost Benefit Analysis offers a unique opportunity to transform legacy defense forces into efficient effective and accountable 21st century organizations A synthesis of economics statistics and decision theory CBA is currently used in a wide range of defense applications in countries around the world i to shape national security strategy ii to set acquisition policy and iii to inform critical investments in people equipment infrastructure services and supplies As sovereign debt challenges squeeze national budgets and emerging threats disrupt traditional notions of security this volume offers valuable tools to navigate the political landscape meet calls for fiscal accountability and boost the effectiveness of defense investments to help guarantee future peace and stability A valuable resource for scholars practitioners novices and experts this book offers a comprehensive overview of Military Cost Benefit Analysis and will appeal to anyone interested or involved in improving national security and will also be of general interest to those responsible for major government programs projects or policies Large Deviations for Additive Functionals of Markov Chains Alejandro D. de Acosta, Peter Ney, 2014-03-05 Relative Equilibria in the 3-Dimensional Curved n -Body Problem Florin Diacu, 2014-03-05 Considers the 3 dimensional gravitational n body problem $n \geq 2$ in spaces of constant Gaussian curvature $k \neq 0$ i.e. on spheres S^3 for 0 and on hyperbolic manifolds H^3 for $k < 0$ Nonlinear Stability of Ekman

Boundary Layers in Rotating Stratified Fluids Hajime Koba, 2014-03-05 A stationary solution of the rotating Navier Stokes equations with a boundary condition is called an Ekman boundary layer This book constructs stationary solutions of the rotating Navier Stokes Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon The author calls such stationary solutions Ekman layers This book shows the existence of a weak solution to an Ekman perturbed system which satisfies the strong energy inequality Moreover the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters The author also shows that there exists a unique global in time strong solution of the perturbed system when the initial datum is sufficiently small Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large

Fundamental Solutions and Local Solvability for Nonsmooth Hormander's Operators Marco Bramanti, Luca Brandolini, Maria Manfredini, Marco Pedroni, 2017-09-25 The authors consider operators of the form in a bounded domain of where are nonsmooth Hormander's vector fields of step such that the highest order commutators are only Hölder continuous Applying Levi's parametrix method the authors construct a local fundamental solution for and provide growth estimates for and its first derivatives with respect to the vector fields Requiring the existence of one more derivative of the coefficients the authors prove that also possesses second derivatives and they deduce the local solvability of constructing by means of a solution to with Hölder continuous The authors also prove estimates on this solution

Equivalence Amanda L. Golbeck, 2017-04-28 *Equivalence* Elizabeth L Scott at Berkeley is the compelling story of one pioneering statistician's relentless twenty year effort to promote the status of women in academe and science Part biography and part microhistory the book provides the context and background to understand Scott's masterfulness at using statistics to help solve societal problems In addition to being one of the first researchers to work at the interface of astronomy and statistics and an early practitioner of statistics using high speed computers Scott worked on an impressively broad range of questions in science from whether cloud seeding actually works to whether ozone depletion causes skin cancer Later in her career Scott became swept up in the academic women's movement She used her well developed scientific research skills together with the advocacy skills she had honed in such activities as raising funds for Martin Luther King Jr and keeping Free Speech Movement students out of jail toward policy making that would improve the condition of the academic workforce for women The book invites the reader into Scott's universe a window of inspiration made possible by the fact that she saved and dated every piece of paper that came across her desk

Near Soliton Evolution for Equivariant Schrödinger Maps in Two Spatial Dimensions Ioan Bejenaru, Daniel Tataru, 2014-03-05 The authors consider the Schrödinger Map equation in $2+1$ dimensions with values into \mathbb{S}^2 This admits a lowest energy steady state Q namely the stereographic projection which extends to a two dimensional family of steady states by scaling and rotation The authors prove that Q is unstable in the

energy space \dot{H}^1 . However in the process of proving this they also show that within the equivariant class Q is stable in a stronger topology $X \subset \dot{H}^1$.

On the Differential Structure of Metric Measure Spaces and Applications Nicola Gigli, 2015-06-26 The main goals of this paper are i To develop an abstract differential calculus on metric measure spaces by investigating the duality relations between differentials and gradients of Sobolev functions This will be achieved without calling into play any sort of analysis in charts our assumptions being the metric space is complete and separable and the measure is Radon and non negative ii To employ these notions of calculus to provide via integration by parts a general definition of distributional Laplacian thus giving a meaning to an expression like where is a function and is a measure iii To show that on spaces with Ricci curvature bounded from below and dimension bounded from above the Laplacian of the distance function is always a measure and that this measure has the standard sharp comparison properties This result requires an additional assumption on the space which reduces to strict convexity of the norm in the case of smooth Finsler structures and is always satisfied on spaces with linear Laplacian a situation which is analyzed in detail

Sheaves on Graphs, Their Homological Invariants, and a Proof of the Hanna Neumann Conjecture Joel Friedman, 2014-12-20 In this paper the author establishes some foundations regarding sheaves of vector spaces on graphs and their invariants such as homology groups and their limits He then uses these ideas to prove the Hanna Neumann Conjecture of the 1950s in fact he proves a strengthened form of the conjecture

A Homology Theory for Smale Spaces Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basic sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger's dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s

Spectra of Symmetrized Shuffling Operators Victor Reiner, Franco Saliola, Volkmar Welker, 2014-03-05 For a finite real reflection group W and a W orbit O of flats in its reflection arrangement or equivalently a conjugacy class of its parabolic subgroups the authors introduce a statistic $\text{noninv } O w$ on w in W that counts the number of O noninversions of w This generalises the classical non inversion statistic for permutations w in the symmetric group S_n The authors then study the operator O of right multiplication within the group algebra CW by the element that has $\text{noninv } O w$ as its coefficient on w

Applications of Polyfold Theory I: The Polyfolds of Gromov-Witten Theory H. Hofer, K. Wysocki, E. Zehnder, 2017-07-13 In this paper the authors start with the construction of the symplectic field theory SFT As a general theory of symplectic invariants SFT has been outlined in Introduction to symplectic field theory 2000 by Y Eliashberg A Givental and H Hofer who have predicted its formal properties The actual construction of SFT is a hard analytical problem which will be overcome by means of the polyfold theory due to the present authors The current paper addresses a significant amount of the arising issues and the

general theory will be completed in part II of this paper To illustrate the polyfold theory the authors use the results of the present paper to describe an alternative construction of the Gromov Witten invariants for general compact symplectic manifolds

A Geometric Theory for Hypergraph Matching Peter Keevash, Richard Mycroft,2014-12-20 The authors develop a theory for the existence of perfect matchings in hypergraphs under quite general conditions Informally speaking the obstructions to perfect matchings are geometric and are of two distinct types space barriers from convex geometry and divisibility barriers from arithmetic lattice based constructions To formulate precise results they introduce the setting of simplicial complexes with minimum degree sequences which is a generalisation of the usual minimum degree condition They determine the essentially best possible minimum degree sequence for finding an almost perfect matching Furthermore their main result establishes the stability property under the same degree assumption if there is no perfect matching then there must be a space or divisibility barrier This allows the use of the stability method in proving exact results Besides recovering previous results the authors apply our theory to the solution of two open problems on hypergraph packings the minimum degree threshold for packing tetrahedra in graphs and Fischer s conjecture on a multipartite form of the Hajnal Szemer di Theorem Here they prove the exact result for tetrahedra and the asymptotic result for Fischer s conjecture since the exact result for the latter is technical they defer it to a subsequent paper

Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model Raphaël Cerf,2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen s model which incorporates 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

Elliptic PDEs on Compact Ricci Limit Spaces and Applications Shouhei Honda,2018-05-29 In this paper the author studies elliptic PDEs on compact Gromov Hausdorff limit spaces of Riemannian manifolds with lower Ricci curvature bounds In particular the author establishes continuities of geometric quantities which include solutions of Poisson s equations eigenvalues of Schr dinger operators generalized Yamabe constants and eigenvalues of the Hodge Laplacian with respect to the Gromov Hausdorff topology The author applies these to the study of second order differential calculus on such limit spaces

Decision Making Optimization Models for Business Partnerships Gholam R. Amin,Mustapha Ibn Boamah,2025-06-13 Efficiency and productivity improvement are imperative for businesses to remain competitive in an increasingly dynamic marketplace While business organizations have the potential to thrive independently collaborating with others fosters a collective strength that can lead to greater innovation expanded reach and shared success Decision making optimization models for business partnerships are essential as businesses seldom have all the resources they need and thus they require alliances and partnerships with others to enable them to meet their goals Decision Making Optimization Models for Business Partnerships extends non parametric

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Degree Spectra of Relations on a Cone Matthew Harrison-Trainor, 2018-05-29 Let \mathcal{A} be a mathematical structure with an additional relation R The author is interested in the degree spectrum of R either among computable copies of \mathcal{A} when $\mathcal{A} \models R$ is a natural structure or to make this rigorous among copies of \mathcal{A} R computable in a large degree d He introduces the partial order of degree spectra on a cone and begin the study of these objects Using a result of Harizanov that assuming an effectiveness condition on \mathcal{A} and R if R is not intrinsically computable then its degree spectrum contains all $c \leq d$ degrees the author shows that there is a minimal non trivial degree spectrum on a cone consisting of the $c \leq d$ degrees

How Einstein Found His Field Equations Michel Janssen, Jürgen Renn, 2022-07-29 Einstein's field equations of gravitation are a core element of his general theory of relativity In four short communications to the Prussian Academy of Sciences in Berlin in November 1915 we can follow the final steps toward these equations and the resulting theory's spectacular success in accounting for the anomalous motion of Mercury's perihelion This source book provides an expert guide to these four groundbreaking papers Following an introductory essay placing these papers in the context of the development of Einstein's theory it presents and analyzes in addition to the four papers of November 1915 a careful selection of critical excerpts from papers letters and manuscripts documenting the path that early on led Einstein to the field equations of the first November 1915 paper but then took a turn away from them only to lead back to them in the end Drawing on extensive research at the Einstein Papers Project and the Max Planck Institute for History of Science this volume traces the intricate interplay between considerations of physics and considerations of mathematics that guided Einstein along this path It thus presents a concise yet authoritative account of how Einstein found his field equations affording readers who are prepared to immerse themselves in these intricacies a unique glimpse of Einstein at work at the height of his creative prowess Highlights of this journey in Einstein's footsteps include the crucial pages with detailed annotation from the Zurich Notebook the record of Einstein's early search for field equation with his mathematician friend Marcel Grossmann and the Einstein-Besso manuscript documenting Einstein's attempts with his friend and confidant Michele Besso to explain the Mercury anomaly on the basis of the equations that he and Grossmann had eventually settled on in the Zurich Notebook

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Table of Contents March 2014 Mathematics Paper 1 Memorandum

1. Understanding the eBook March 2014 Mathematics Paper 1 Memorandum
 - The Rise of Digital Reading March 2014 Mathematics Paper 1 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying March 2014 Mathematics Paper 1 Memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an March 2014 Mathematics Paper 1 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from March 2014 Mathematics Paper 1 Memorandum

- Personalized Recommendations
 - March 2014 Mathematics Paper 1 Memorandum User Reviews and Ratings
 - March 2014 Mathematics Paper 1 Memorandum and Bestseller Lists
5. Accessing March 2014 Mathematics Paper 1 Memorandum Free and Paid eBooks
 - March 2014 Mathematics Paper 1 Memorandum Public Domain eBooks
 - March 2014 Mathematics Paper 1 Memorandum eBook Subscription Services
 - March 2014 Mathematics Paper 1 Memorandum Budget-Friendly Options
 6. Navigating March 2014 Mathematics Paper 1 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - March 2014 Mathematics Paper 1 Memorandum Compatibility with Devices
 - March 2014 Mathematics Paper 1 Memorandum Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of March 2014 Mathematics Paper 1 Memorandum
 - Highlighting and Note-Taking March 2014 Mathematics Paper 1 Memorandum
 - Interactive Elements March 2014 Mathematics Paper 1 Memorandum
 8. Staying Engaged with March 2014 Mathematics Paper 1 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers March 2014 Mathematics Paper 1 Memorandum
 9. Balancing eBooks and Physical Books March 2014 Mathematics Paper 1 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection March 2014 Mathematics Paper 1 Memorandum
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine March 2014 Mathematics Paper 1 Memorandum
 - Setting Reading Goals March 2014 Mathematics Paper 1 Memorandum
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of March 2014 Mathematics Paper 1 Memorandum

- Fact-Checking eBook Content of March 2014 Mathematics Paper 1 Memorandum
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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