

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	R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$. $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ $\therefore A(8; 3)$	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ Sub $T(4; 1)$	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

Maths 2014 March Paper Memorandum

David J. Brown



Maths 2014 March Paper Memorandum:

Large Deviations for Additive Functionals of Markov Chains Alejandro D. de Acosta, Peter Ney, 2014-03-05

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

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^{3-1} for 0 and on hyperbolic manifolds H^{3-1} for

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 $\text{noninv } O$ 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 $\text{noninv } O$ as its coefficient on w

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

The Education Invasion Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K

12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children s minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies **Near Soliton**

Evolution for Equivariant Schrodinger 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 $X \subset \dot{H}^1$ *Failure Up Close* Jay P.

Greene, Michael Q. McShane, 2018-01-17 For many reasons failure in education reform is rarely admitted Even though it is incredibly hard work to try and improve the enormous and diverse American education system because there are political consequences of admitting that a particular effort did not live up to its promises and pressure from philanthropic funders to show success unsuccessful efforts are often swept under the rug or papered over with public relations efforts that avoid wrestling with the tough realities of educational improvement This doesn t help anyone As any educator will tell you failure is an essential part of learning Insofar as education reform needs to be a learning movement itself it has to be able to admit where it has failed and learn from it *Failure Up Close* engages a select group of scholars from across the ideological spectrum to examine particular education reform efforts of recent years that have not succeeded and offer lessons for school and system improvement that can be learned from them Rather than view failure as negative this volume looks at failure as an opportunity to learn and grow In fact the editors endeavored to find authors that would analyze reforms for which they had some fundamental sympathy The goal is not to bash particular efforts or castigate their supporters but rather to help those supporters understand how to do what they do better and ultimately do better for children **CDS 12 Years**

Topic-wise Solved Papers Mathematics, English & General Knowledge (2007-2018) - 3rd Edition Disha Experts, 2018-06-01 The thoroughly revised updated 3rd edition of CDS 12 Years Mathematics English General Knowledge Topic wise Solved Papers 2007 Feb 2018 Feb consists of last 12 years both Feb and November papers from 2007 Paper 1 2018 Paper 1 solved papers of Elementary Mathematics English and General Knowledge distributed into 42 topics In all there are 23 Question papers from 2007 to 2018 I which have been divided into the above discussed 42 topics Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination All the papers are divided into following sections Section I Mathematics which is distributed into 25 topics Section II English is

divided into 8 topics Section III General Knowledge is divided into 9 topics The book contains 6460 MILESTONE MCQ s from the above 23 Question papers The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students

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 complex systems change

Access to Scientific Research David J. Brown,2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future

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

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 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 Szemerédi 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

Mathematical Study of Degenerate Boundary Layers: A Large Scale Ocean Circulation Problem

Anne-Laure Dalibard, Laure Saint-Raymond, 2018-05-29 This paper is concerned with a complete asymptotic analysis as $E \rightarrow 0$ of the Munk equation $\partial_x \psi = E \Delta \psi$ in a domain $\Omega \subset \mathbb{R}^2$ supplemented with boundary conditions for ψ and $\partial_n \psi$ This equation is a simple model for the circulation of currents in closed basins the variables x and y being respectively the longitude and the latitude A crude analysis shows that as $E \rightarrow 0$ the weak limit of ψ satisfies the so called Sverdrup transport equation inside the domain namely $\partial_x \psi = 0$ while boundary layers appear in the vicinity of the boundary

The Scientific Journal

Alex Csiszar, 2018-06-25 Not since the printing press has a media object been as celebrated for its role in the advancement of knowledge as the scientific journal From open communication to peer review the scientific journal has long been central both to the identity of academic scientists and to the public legitimacy of scientific knowledge But that was not always the case At the dawn of the nineteenth century academies and societies dominated elite study of the natural world Journals were a relatively marginal feature of this world and sometimes even an object of outright suspicion The Scientific Journal tells the story of how that changed Alex Csiszar takes readers deep into nineteenth century London and Paris where savants struggled to reshape scientific life in the light of rapidly changing political mores and the growing importance of the press in public life The scientific journal did not arise as a natural solution to the problem of communicating scientific discoveries Rather as Csiszar shows its dominance was a hard won compromise born of political exigencies shifting epistemic values intellectual property debates and the demands of commerce Many of the tensions and problems that plague scholarly publishing today are rooted in these tangled beginnings As we seek to make sense of our own moment of intense experimentation in publishing platforms peer review and information curation Csiszar argues powerfully that a better understanding of the journal's past will be crucial to imagining future forms for the expression and organization of knowledge

My Mathematical Universe: People, Personalities,

And The Profession Krishnaswami Alladi, 2022-11-15 This is an autobiography and an exposition on the contributions and personalities of many of the leading researchers in mathematics and physics with whom Dr Krishna Alladi Professor of Mathematics at the University of Florida has had personal interaction with for over six decades Discussions of various

aspects of the physics and mathematics academic professions are included Part I begins with the author's unusual and frequent introductions as a young boy to scientific luminaries like Nobel Laureates Niels Bohr Murray Gell Mann and Richard Feynman in the company of his father the scientist Alladi Ramakrishnan Also in Part I is an exciting account of how the author started his research investigations in number theory as an undergraduate and how contact and collaboration with the great Paul Erdős as a student influenced him in his career In depth views of the Institute for Advanced Study Princeton and several major American Universities are given and fascinating descriptions of the work and personalities of some Field Medalists and eminent mathematicians are provided Part II deals with the author's tenure at the University of Florida where he initiated several programs as Mathematics Chair for a decade and how he has served the profession in various capacities most notably as Chair of the SASTRA Ramanujan Prize Committee and Editor in Chief of The Ramanujan Journal The book would appeal to academicians and the general public since the author has blended academic and scientific discussions at a non technical level with descriptions of destinations in his international travels for work and pleasure The reader is invited to dig as deep as desired and is guaranteed to be treated to whimsical stories and personal peeks at some of the great luminaries of the twentieth and twenty first centuries

The abc -Problem for Gabor Systems Xin-Rong Dai, Qiyu Sun, 2016-10-05 A longstanding problem in Gabor theory is to identify time frequency shifting lattices $a\mathbb{Z} + b\mathbb{Z}$ and ideal window functions I on intervals I of length c such that $e^{2\pi i t m n}$ are Gabor frames for the space of all square integrable functions on the real line In this paper the authors create a time domain approach for Gabor frames introduce novel techniques involving invariant sets of non contractive and non measure preserving transformations on the line and provide a complete answer to the above abc problem for Gabor systems

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

California Dreaming Lawrence J. McQuillan, 2015-05-01 A politically created crisis of epic proportions is brewing in California and elsewhere across the United States For decades public pension officials and politicians of both

parties have promised their employees increasingly generous retirement benefits while low balling the contributions from government agencies and employees that are needed to cover these promises presenting our greatest financial challenge since the Great Depression Pushing the pension liability from today and onto our children and grandchildren leaves them with a depleted future and a potentially bankrupt California State and local governments will scramble to find funds forcing them to raise taxes slash public services and or declare bankruptcy Schools parks emergency services and public employee retirement benefits will be at risk Politicians will defer until circumstances force them to reckon with a disaster of their own making The problem For far too long state and local governments have promised their employees increasingly generous retirement benefits but without ensuring that sufficient funds will be on hand when the pension payments come due In California Dreaming Lawrence J McQuillan pulls back the curtains covering this unfunded liability crisis He describes the true extent of the problem explains the critical factors that are driving public pension debt sky high and exposes the perverse incentives of lawmakers and pension officials that reward them for not fixing the problem and letting it escalate Finally he offers the six crucial reforms needed to restore the financial health of California and other threatened jurisdictions If California Dreaming s roadmap for reform is adopted the prospects for achieving a thriving balanced and equitable future are highly favorable in California and any state or municipality facing its own public pension problem If not the many opportunities that once made the Golden State seem like a Promised Land will quickly evaporate

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