

10.2.1	6! $= 6 \times 5 \times 4 \times 3 \times 2 \times 1$ $= 720$	✓ 6! ✓ answer (2)
10.2.2	number of ways Xoliswa sits next to Anees/ <i>getal maniere waarop Xoliswa langs Anees sit</i> $= 5! \times 2$ $= 240$ OR/OF Regard Xoliswa and Anees as a single entity/<i>Beskou Xoliswa en Anees as een</i> Number of ways in which 5 passengers can be arranged $= 5!$ <i>Getal maniere waarop 5 passasiers gerangskik kan word</i> $= 5!$ So 5! different arrangements for KA and 5! different arrangements for AX <i>So 5! verskillende rangskikkings vir KA en 5! verskillende rangskikkings vir AX</i> number of ways Xoliswa sits next to Anees <i>getal maniere waarop Xoliswa langs Anees sit</i> $= 5! \times 2$ $= 240$	✓ $5! \times 2$ ✓ answer (2) ✓ $5! + 5!$ ✓ answer (2)
10.2.3	number of ways Mary is at an end of the row on the left $= 1 \times 5!$ number of ways Mary is at an end of the row on the right $= 5! \times 1$ total number of arrangements $= 6!$ $P(\text{Mary is at an end of the row}) = \frac{5! \times 1 + 1 \times 5!}{6!}$ $= \frac{1}{3}$ <i>getal maniere waarop Mary aan die einde van die ry links is</i> $= 1 \times 5!$ <i>getal maniere waarop Mary aan die einde van die ry regs is</i> $= 5! \times 1$ <i>totale getal rangskikkings</i> $= 6!$ $P(\text{Mary is aan einde van die ry}) = \frac{5! \times 1 + 1 \times 5!}{6!}$ $= \frac{1}{3}$	✓ both LHS and RHS ways ✓ 6 ! ✓ setting up probability ✓ answer (4) [15]
	TOTAL/TOTAAL:	150

Maths Paper 1 February 2014 Memorandum

Ioan Bejenaru, Daniel Tataru



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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

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

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 in spaces of constant Gaussian curvature $k \neq 0$ i.e on spheres S^3 for $k = 1$ and on hyperbolic manifolds H^3 for $k = -1$

for *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 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 $X \subset \dot{H}^1$.

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 .

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. 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. 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. *Endoscopic Classification of Representations of*

Quasi-Split Unitary Groups Chung Pang Mok, 2015-04-09 In this paper the author establishes the endoscopic classification of tempered representations of quasi split unitary groups over local fields and the endoscopic classification of the discrete automorphic spectrum of quasi split unitary groups over global number fields. The method is analogous to the work of Arthur on orthogonal and symplectic groups based on the theory of endoscopy and the comparison of trace formulas on unitary groups and general linear groups. *Special Values of the Hypergeometric Series* Akihito Ebisu, 2017-07-13 In this paper the

author presents a new method for finding identities for hypergeometric series such as the Gauss hypergeometric series, the generalized hypergeometric series and the Appell Lauricella hypergeometric series. Furthermore using this method the

author gets identities for the hypergeometric series and shows that values of at some points can be expressed in terms of gamma functions together with certain elementary functions The author tabulates the values of that can be obtained with this method and finds that this set includes almost all previously known values and many previously unknown values **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 **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 **Non-Semisimple Extended Topological Quantum Field Theories** Marco De Renzi,2022-05-24 View the abstract Wellposedness of Second Order Master Equations for Mean Field Games with Nonsmooth Data Chenchen Mou,Jianfeng Zhang,2024-12-13 View the abstract **An Age of Accountability** John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based

accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

Applied Mechanics Reviews, 1950 **Algebraic $\overline{\mathbb{Q}}$ -Groups as Abstract Groups** Olivier Frécon, 2018-10-03 The author analyzes the abstract structure of algebraic groups over an algebraically

closed field For of characteristic zero and a given connected affine algebraic $\mathbb{Q}$ group the main theorem describes all the affine algebraic $\mathbb{Q}$ groups such that the groups and are isomorphic as abstract groups In the same time it is shown that for any two connected algebraic $\mathbb{Q}$ groups and the elementary equivalence of the pure groups and implies that they are abstractly isomorphic In the final section the author applies his results to characterize the connected algebraic groups all of whose abstract automorphisms are standard when is either $\mathbb{Q}$ or of positive characteristic In characteristic zero a fairly general criterion is exhibited

Non Linear Mathematics Vol. I Thomas L., Saaty, Joseph, Bram, 2014-12-22 We are surrounded and deeply involved in the natural world with non linear events which are not necessarily mathematical the authors write For example the nonlinear problem of pedalling a bicycle up and down a hillside On a grand scale the struggle for existence between two species one of which preys exclusively on the other This book is for mathematicians and researchers who believe that nonlinear mathematics is the mathematics of today it is also for economists engineers operations analysts the reader who has been thus bemused into an artificially linear conception of the universe Nonlinear Mathematics is the first attempt to consider the widest range of nonlinear topics found in the scattered literature Accessible to non mathematics professionals as well as college seniors and graduates it offers a discussion both particular and broad enough to stimulate research towards a unifying theory of nonlinear mathematics Ideas are presented according to existence and uniqueness theorems characterization e g stability and asymptotic behavior construction of solutions convergence approximation and errors

The Third Option Loch K. Johnson, 2022 Introduction The subterranean world of clandestine interventions The forms of covert action A ladder of clandestine escalation A shadowy foreign policy 1947 1960 Murder most foul 1960 1975 A new approach to covert action 1975 2000 The third option in an age of terror 2000 2020 Legal foundations Decision paths and accountability Drawing bright lines ethics and covert action The third option reconsidered **Show Me the Evidence** Ron Haskins, Greg Margolis, 2014-12-01 The first comprehensive history of the Obama administration s

evidence based initiatives From its earliest days the Obama administration planned and enacted several initiatives to fund social programs based on rigorous evidence of success Ron Haskins and Greg Margolis tell the story of six spanning preschool and K 12 education teen pregnancy employment and training health and community based programs Readers will appreciate the fast moving descriptions of the politics and policy debates that shaped these federal programs and the analysis of whether they will truly reshape federal social policy and greatly improve its impacts on the nation s social problems Based on interviews with 134 individuals including advocates officials at the Office of Management and Budget and the Domestic Policy Council Congressional staff and officials in the federal agencies administering the initiatives as well as Congressional and administration documents and news accounts the authors examine each of the six initiatives in separate chapters The story of each initiative includes a review of the social problem the initiative addresses the genesis and enactment of the legislation that authorized the initiative and the development of the procedures used by the administration to set the evidence standard and evaluation requirements including the requirements for grant applications and awarding of grants

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