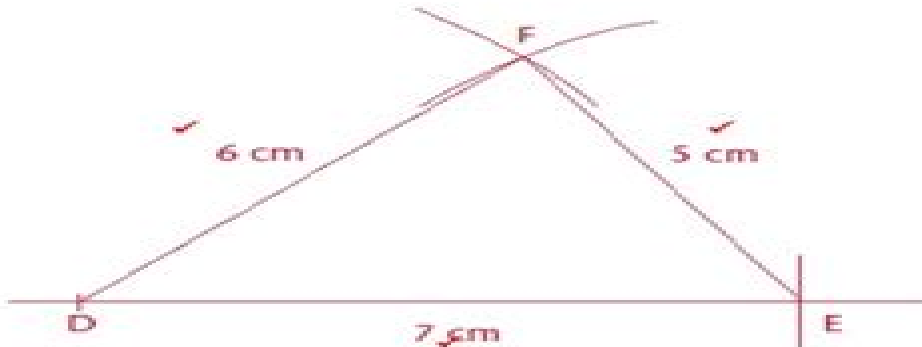


GRADE 9 MATHEMATICS
TERM 2
FORMAL ASSESSMENT TASK 2.1
INVESTIGATION: Congruency & Similarity

MEMORANDUM

SECTION A: INVESTIGATION [50]

QUESTION 1

		Answer	Mark descriptor
1. 1		<p>Three sides given: side, side, side (SSS)</p> <p>$\triangle DEF$ with $DE = 7$ cm, $DF = 6$ cm and $EF = 5$ cm.</p> 	<p>1 mark per side with correct length (3)</p> <p>1 A completion of triangle (1)</p> <p style="text-align: right;">[4]</p>

Memorandum For Maths Paper March2015

**Timothy C. Burness,,Soumaïa
Ghandour,Donna M. Testerman**



Memorandum For Maths Paper March2015:

Applications of Operational Research and Mathematical Models in Management Miltiadis Chalikias,2020-11-17

This book Applications of Operational Research and Mathematical Models in Management includes all the papers published in the Mathematics Special Issue with the same title All the published papers are of high quality and were subjected to rigorous peer review Mathematics is included in the Science Citation Index Web of Science and its current Impact Factor is 1.747 The papers in this book deal with on R D performance models methods for ranking the perspectives and indicators of a balance scorecard robust optimization model applications integrated production and distribution problem solving demand functions supply chain games probabilistic optimization and profit research coordinated techniques for order preference robustness approaches in bank capital optimization and hybrid methods for tourism demand forecasting All the papers included contribute to the development of research *Naval Research Logistics Quarterly* ,1954 **On Non-Generic**

Finite Subgroups of Exceptional Algebraic Groups Alastair J. Litterick,2018-05-29 The study of finite subgroups of a simple algebraic group G reduces in a sense to those which are almost simple If an almost simple subgroup of G has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of G then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic

Continuous-Time Random Walks for the Numerical Solution of Stochastic Differential Equations Nawaf

Bou-Rabee,Eric Vanden-Eijnden,2019-01-08 This paper introduces time continuous numerical schemes to simulate stochastic differential equations SDEs arising in mathematical finance population dynamics chemical kinetics epidemiology biophysics and polymeric fluids These schemes are obtained by spatially discretizing the Kolmogorov equation associated with the SDE in such a way that the resulting semi discrete equation generates a Markov jump process that can be realized exactly using a Monte Carlo method In this construction the jump size of the approximation can be bounded uniformly in space which often guarantees that the schemes are numerically stable for both finite and long time simulation of SDEs *Medial/Skeletal*

Linking Structures for Multi-Region Configurations James Damon,Ellen Gasparovic,2018-01-16 The authors consider a generic configuration of regions consisting of a collection of distinct compact regions in which may be either regions with smooth boundaries disjoint from the others or regions which meet on their piecewise smooth boundaries in a generic way They introduce a skeletal linking structure for the collection of regions which simultaneously captures the regions individual shapes and geometric properties as well as the positional geometry of the collection The linking structure extends in a minimal way the individual skeletal structures on each of the regions This allows the authors to significantly extend the mathematical methods introduced for single regions to the configuration of regions **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} \mathcal{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 \mathcal{R} if \mathcal{R} is not intrinsically computable then its degree spectrum contains all $c \leq e$ degrees the author shows that there is a minimal non trivial degree spectrum on a cone consisting of the $c \leq e$ degrees

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

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

Spectral Invariants with Bulk, Quasi-Morphisms and Lagrangian Floer Theory Kenji Fukaya, Yong-Geun Oh, Hiroshi Ohta, Kaoru Ono, 2019-09-05 In this paper the authors first develop various enhancements of the theory of spectral invariants of Hamiltonian Floer homology and of Entov-Polterovich theory of spectral symplectic quasi states and quasi morphisms by incorporating bulk deformations i.e deformations by ambient cycles of symplectic manifolds of the Floer homology and quantum cohomology Essentially the same kind of construction is independently carried out by Usher in a slightly less general context Then the authors explore various applications of these enhancements to the symplectic topology especially new construction of symplectic quasi states quasi morphisms and new Lagrangian intersection results on toric and non toric manifolds The most novel part of this paper is its use of open closed Gromov-Witten Floer theory and its variant involving closed orbits of periodic Hamiltonian system to connect spectral invariants with bulk deformation symplectic quasi states quasi morphism to the Lagrangian Floer theory with bulk deformation The authors use this open closed Gromov-Witten Floer theory to produce new examples Using the calculation of Lagrangian Floer cohomology with bulk

they produce examples of compact symplectic manifolds which admits uncountably many independent quasi morphisms They also obtain a new intersection result for the Lagrangian submanifold in *Irreducible Geometric Subgroups of Classical Algebraic Groups* Timothy C. Burness,,Soumaïa Ghandour,Donna M. Testerman,2016-01-25 Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with natural module V Let H be a closed subgroup of G and let W be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of W to H is irreducible In this paper the authors classify the triples of this form where H is a disconnected maximal positive dimensional closed subgroup of G preserving a natural geometric structure on V *Orthogonal and Symplectic n -level Densities* A. M. Mason,N. C. Snaith,2018-02-23 In this paper the authors apply to the zeros of families of functions with orthogonal or symplectic symmetry the method that Conrey and Snaith Correlations of eigenvalues and Riemann zeros 2008 used to calculate the correlation of the zeros of the Riemann zeta function This method uses the Ratios Conjectures Conrey Farmer and Zimbauer 2008 for averages of ratios of zeta or functions Katz and Sarnak Zeroes of zeta functions and symmetry 1999 conjecture that the zero statistics of families of functions have an underlying symmetry relating to one of the classical compact groups and Here the authors complete the work already done with Conrey and Snaith Correlations of eigenvalues and Riemann zeros 2008 to show how new methods for calculating the level densities of eigenangles of random orthogonal or symplectic matrices can be used to create explicit conjectures for the level densities of zeros of functions with orthogonal or symplectic symmetry including all the lower order terms They show how the method used here results in formulae that are easily modified when the test function used has a restricted range of support and this will facilitate comparison with rigorous number theoretic level density results **Sobolev, Besov and Triebel-Lizorkin Spaces on Quantum Tori** Xiao Xiong,Quanhua Xu,Zhi Yin,2018-03-19 This paper gives a systematic study of Sobolev Besov and Triebel Lizorkin spaces on a noncommutative torus with a skew symmetric real matrix These spaces share many properties with their classical counterparts The authors prove among other basic properties the lifting theorem for all these spaces and a Poincaré type inequality for Sobolev spaces **Modeling, Simulation and Optimization of Complex Processes HPSC 2015** Hans Georg Bock,Hoang Xuan Phu,Rolf Rannacher,Johannes P. Schlöder,2017-11-16 This proceedings volume highlights a selection of papers presented at the Sixth International Conference on High Performance Scientific Computing which took place in Hanoi Vietnam on March 16 20 2015 The conference was jointly organized by the Heidelberg Institute of Theoretical Studies HITS the Institute of Mathematics of the Vietnam Academy of Science and Technology VAST the Interdisciplinary Center for Scientific Computing IWR at Heidelberg University and the Vietnam Institute for Advanced Study in Mathematics Ministry of Education The contributions cover a broad interdisciplinary spectrum of scientific computing and showcase recent advances in theory methods and practical applications Subjects covered numerical simulation methods for optimization and control parallel computing and software development as well as the applications of scientific computing in

physics mechanics biomechanics and robotics material science hydrology biotechnology medicine transport scheduling and industry

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

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

Diophantine Approximation and the Geometry of Limit Sets in Gromov Hyperbolic Metric Spaces Lior Fishman, David Simmons, Mariusz Urbański, 2018-08-09 In this paper the authors provide a complete theory of Diophantine approximation in the limit set of a group acting on a Gromov hyperbolic metric space This summarizes and completes a long line of results by many authors from Patterson's classic 1976 paper to more recent results of Hersensky and Paulin 2002 2004 2007 The authors consider concrete examples of situations which have not been considered before These include geometrically infinite Kleinian groups geometrically finite Kleinian groups where the approximating point is not a fixed point of any element of the group and groups acting on infinite dimensional hyperbolic space Moreover in addition

to providing much greater generality than any prior work of which the authors are aware the results also give new insight into the nature of the connection between Diophantine approximation and the geometry of the limit set within which it takes place Two results are also contained here which are purely geometric a generalization of a theorem of Bishop and Jones 1997 to Gromov hyperbolic metric spaces and a proof that the uniformly radial limit set of a group acting on a proper geodesic Gromov hyperbolic metric space has zero Patterson Sullivan measure unless the group is quasiconvex cocompact The latter is an application of a Diophantine theorem The Performance of Africa's International Courts James Thuo

Gathii,2020-11-26 The performance of international courts has traditionally been judged against criteria of compliance and effectiveness Whilst these are clearly desirable objectives for litigants before Africa s international courts this book shows that we must look beyond these criteria to fully appreciate the impact of these courts This book shows how litigants use their participation in international litigation to achieve other objectives to amplify political disputes with their governments to build their movement to educate the public about their cause and to challenge the status quo Chapters in this collection show how these courts act as coordination points for opposition political parties to name and shame dominant parties for violation of their organizational rights Others demonstrate how Africa s international courts serve as transitional justice mechanisms in which truth telling about ongoing conflict and authoritarian governance receives significant attention This attention serves as a platform to galvanize resistance against continued authoritarian rule especially from outside the conflict countries Ultimately the book shows that these courts must be judged against new and broader criteria and understood as increasingly important venues for waging political social environmental and legal struggles Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set) Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **Curvature: A Variational Approach** A.

Agrachev,D. Barilari,L. Rizzi,2019-01-08 The curvature discussed in this paper is a far reaching generalization of the Riemannian sectional curvature The authors give a unified definition of curvature which applies to a wide class of geometric structures whose geodesics arise from optimal control problems including Riemannian sub Riemannian Finsler and sub Finsler spaces Special attention is paid to the sub Riemannian or Carnot Carath odory metric spaces The authors construction of curvature is direct and naive and similar to the original approach of Riemann In particular they extract geometric invariants from the asymptotics of the cost of optimal control problems Surprisingly it works in a very general setting and in particular for all sub Riemannian spaces *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

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Table of Contents Memorandum For Maths Paper March2015

1. Understanding the eBook Memorandum For Maths Paper March2015
 - The Rise of Digital Reading Memorandum For Maths Paper March2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum For Maths Paper March2015
 - 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 Memorandum For Maths Paper March2015
 - User-Friendly Interface

4. Exploring eBook Recommendations from Memorandum For Maths Paper March2015
 - Personalized Recommendations
 - Memorandum For Maths Paper March2015 User Reviews and Ratings
 - Memorandum For Maths Paper March2015 and Bestseller Lists
5. Accessing Memorandum For Maths Paper March2015 Free and Paid eBooks
 - Memorandum For Maths Paper March2015 Public Domain eBooks
 - Memorandum For Maths Paper March2015 eBook Subscription Services
 - Memorandum For Maths Paper March2015 Budget-Friendly Options
6. Navigating Memorandum For Maths Paper March2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum For Maths Paper March2015 Compatibility with Devices
 - Memorandum For Maths Paper March2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum For Maths Paper March2015
 - Highlighting and Note-Taking Memorandum For Maths Paper March2015
 - Interactive Elements Memorandum For Maths Paper March2015
8. Staying Engaged with Memorandum For Maths Paper March2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum For Maths Paper March2015
9. Balancing eBooks and Physical Books Memorandum For Maths Paper March2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum For Maths Paper March2015
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Memorandum For Maths Paper March2015
 - Setting Reading Goals Memorandum For Maths Paper March2015
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Memorandum For Maths Paper March2015
 - Fact-Checking eBook Content of Memorandum For Maths Paper March2015
 - 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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web 1 $\sigma_{\text{address} = 021g \text{ s } 0}$ supplier find the ids of suppliers who supply some red part and some green part $\pi_{\text{sid}} \sigma_{\text{colour} = 0red} 0$ part catalog $\pi_{\text{sid}} \sigma_{\text{colour} = 0green} 0$ part catalog 1 alternatively we can replace the intersection with a join $\pi_{\text{sid}} \sigma_{\text{colour} = 0red} 0$ part catalog $\pi_{\text{sid}} \sigma_{\text{colour} = 0green} 0$ part catalog 1 1

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