

**GRADE 9 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression $2x^2 + 3x + 2$ is _____ (3)

- A 3
B 2
C 4
D 5

1.2 How many terms are in the expression $2x^2 + 3x + 2$? _____ (3)

- A 1
B 2
C 3
D 4

1.3 Determine the following two terms in the sequence: _____ (3)

- A 48; 56
B 48; 57
C 47; 56
D 47; 57

1.4 Prime numbers that lie between 8 and 22: _____ (3)

- A 11, 13, 17, 19, 23
B 11, 17, 19, 23
C 11, 13, 17, 19
D 11, 17, 19, 23

1.5 $\sqrt{324}$ is _____ (3)

- A 18
B 74
C 18 and 74
D 18

1.6 If $x = 2$, the value of $3x^2 + 4x$ would be: _____ (3)

- A 10
B 12
C 14
D 16

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write 345:15 in it's simplest form. _____ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? _____ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed. _____ (3)

2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. _____ (4)

2.5 Calculate the following:

- 2.5.1 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
2.5.2 $2 \times 10^3 + 3 \times 10^2$ _____ (3)
[16]

QUESTION 3: EXPONENTS

3.1 $5^2 \times \sqrt{5} + 5^2$ _____ (2)

3.2 $5^2 \times 5^3$ _____ (2)

3.3 $\frac{5^2}{5^3}$ _____ (3)

3.4 $\sqrt{5^2} \times 5^3$ _____ (3)
[10]

Mathematics 2014 Paper 1 Memorandum

**Matthias Fischmann, Andreas Juhl, Petr
Somberg**



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Non-Semisimple Extended Topological Quantum Field Theories Marco De Renzi, 2022-05-24 View the abstract

Conformal Symmetry Breaking Differential Operators on Differential Forms Matthias Fischmann, Andreas Juhl, Petr Somberg, 2021-06-18 We study conformal symmetry breaking differential operators which map differential forms on $\mathbb{R}^n$ to differential forms on a codimension one subspace $\mathbb{R}^{n-1}$. These operators are equivariant with respect to the conformal Lie algebra of the subspace $\mathbb{R}^{n-1}$. They correspond to homomorphisms of generalized Verma modules for $\mathfrak{so}(n, 1)$ into generalized Verma modules for $\mathfrak{so}(n, 1) + 1$ both being induced from fundamental form representations of a parabolic subalgebra. We apply the F-method to derive explicit formulas for such homomorphisms. In particular we find explicit formulas for the generators of the intertwining operators of the related branching problems restricting generalized Verma modules for $\mathfrak{so}(n, 1) + 1$ to $\mathfrak{so}(n, 1)$. As consequences we derive closed formulas for all conformal symmetry breaking differential operators in terms of the first order operators d and $\bar{d}$ and certain hypergeometric polynomials. A dominant role in these studies is played by two infinite sequences of symmetry breaking differential operators which depend on a complex parameter. Their values at special values of λ appear as factors in two systems of factorization identities which involve the Branson-Govardarov operators of the Euclidean metrics on $\mathbb{R}^n$ and $\mathbb{R}^{n-1}$ and the operators d and $\bar{d}$ as factors respectively. Moreover they naturally recover the gauge companion and Q-curvature operators of the Euclidean metric on the subspace $\mathbb{R}^{n-1}$ respectively.

Trees of Hyperbolic Spaces Michael Kapovich, Pranab Sardar, 2024-08-15 This book offers an alternative proof of the Bestvina-Feighn combination theorem for trees of hyperbolic spaces and describes uniform quasigeodesics in such spaces. As one of the applications of their description of uniform quasigeodesics the authors prove the existence of Cannon-Thurston maps for inclusion maps of total spaces of subtrees of hyperbolic spaces and of relatively hyperbolic spaces. They also analyze the structure of Cannon-Thurston laminations in this setting. Furthermore some group theoretic applications of these results are discussed. This book also contains background material on coarse geometry and geometric group theory.

Moduli Spaces and Vector Bundles—New Trends Peter Gothen, Margarida Melo, Montserrat Teixidor i Bigas, 2024-07-18 This volume contains the proceedings of the VBC 2022 Conference on Moduli Spaces and Vector Bundles New Trends held in honor of Peter Newstead's 80th birthday from July 25–29, 2022, at the University of Warwick, Coventry, United Kingdom. The papers focus on the theory of stability conditions in derived categories, non-reductive geometric invariant theory, Brill-Noether theory, and Higgs bundles and character varieties. The volume includes both survey and original research articles. Most articles contain substantial background and will be helpful to both novices and experts.

Noncommutative Geometry and Optimal Transport Pierre Martinetti, Jean-Christophe Wallet, 2016-10-26 The distance formula in noncommutative geometry was introduced by Connes at the end of the 1980s. It is a generalization of Riemannian geodesic distance that makes sense in a noncommutative setting and provides an original tool to study the geometry of the space of states on an algebra. It also has

an intriguing echo in physics for it yields a metric interpretation for the Higgs field In the 1990s Rieffel noticed that this distance is a noncommutative version of the Wasserstein distance of order 1 in the theory of optimal transport More exactly this is a noncommutative generalization of Kantorovich dual formula of the Wasserstein distance Connes distance thus offers an unexpected connection between an ancient mathematical problem and the most recent discovery in high energy physics The meaning of this connection is far from clear Yet Rieffel's observation suggests that Connes distance may provide an interesting starting point for a theory of optimal transport in noncommutative geometry This volume contains several review papers that will give the reader an extensive introduction to the metric aspect of noncommutative geometry and its possible interpretation as a Wasserstein distance on a quantum space as well as several topic papers

Quantum Groups, Hopf Algebras, and Applications Susan Montgomery, Siu-Hung Ng, 2025-03-13 This volume contains the proceedings of the AMS Special Session on Quantum Groups Hopf Algebras and Applications in memory of Professor Earl J Taft which was held from October 22-23 2022 at the University of Utah Salt Lake City Utah Hopf algebras play a crucial role in many areas of mathematics from finite groups to tensor categories and allows researchers to make many connections between these subjects Applications of Hopf algebras to low dimensional topology topological quantum field theory and condensed matter physics provide further motivation for the study of representations of Hopf algebras and their generalizations In memory of Earl Jay Taft a pioneer of the theory of Hopf algebras this volume collects research articles on Hopf algebras quantum groups and tensor categories contributed by prominent researchers The articles in this volume manifest the diversity and richness of the subject and contain exciting new results which will certainly have applications to different areas of mathematics and physics

Group Actions and Equivariant Cohomology Loring W. Tu, 2024-11-26 This volume contains the proceedings of the virtual AMS Special Session on Equivariant Cohomology held March 19-20 2022 Equivariant topology is the algebraic topology of spaces with symmetries At the meeting equivariant cohomology was broadly interpreted to include related topics in equivariant topology and geometry such as Bredon cohomology equivariant cobordism GKM Goresky Kottwitz and MacPherson theory equivariant K theory symplectic geometry and equivariant Schubert calculus This volume offers a view of the exciting progress made in these fields in the last twenty years Several of the articles are surveys suitable for a general audience of topologists and geometers To be broadly accessible all the authors were instructed to make their presentations somewhat expository This collection should be of interest and useful to graduate students and researchers alike

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2023-01-29 This volume presents modern trends in the area of symmetries and their applications based on contributions to the Workshop Lie Theory and Its Applications in Physics held in Sofia Bulgaria on line in June 2021 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure

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New Trends in Sub-Riemannian Geometry Fabrice Baudoin, Luca Rizzi, 2025-01-27 This volume contains the proceedings of the AMS EMS SMF Special Session on Sub Riemannian Geometry and Interactions held from July 18 20 2022 at the Universit  de Grenoble Alpes Grenoble France Sub Riemannian geometry is a generalization of Riemannian one where a smooth metric is defined only on a preferred subset of tangent directions Under the so called H rmander condition all points are connected by finite length curves giving rise to a well defined metric space Sub Riemannian geometry is nowadays a lively branch of mathematics connected with probability harmonic and complex analysis subelliptic PDEs geometric measure theory optimal transport calculus of variations and potential analysis The articles in this volume present some developments of a broad range of topics in sub Riemannian geometry including the theory of sub elliptic operators holonomy spectral theory and the geometry of the exponential map

[The Bigraded Rumin Complex via Differential Forms](#) Jeffrey S. Case, 2025-02-21 View the abstract

Shock Waves in Conservation Laws with Physical Viscosity Tai-Ping Liu, Yanni Zeng, 2015-02-06 The authors study the perturbation of a shock wave in conservation laws with physical viscosity They obtain the detailed pointwise estimates of the solutions In particular they show that the solution converges to a translated shock profile The strength of the perturbation and that of the shock are assumed to be small but independent The authors assumptions on the viscosity matrix are general so that their results apply to the Navier Stokes equations for the compressible fluid and the full system of magnetohydrodynamics including the cases of multiple eigenvalues in the transversal fields as long as the shock is classical The authors analysis depends on accurate construction of an approximate Green's function The form of the ansatz for the perturbation is carefully constructed and is sufficiently tight so that the author can close the nonlinear term through Duhamel's principle

Bounded Littlewood Identities Eric M. Rains, S. Ole Warnaar, 2021-07-21 We describe a method based on the theory of Macdonald Koornwinder polynomials for proving bounded Littlewood identities Our approach provides

an alternative to Macdonald's partial fraction technique and results in the first examples of bounded Littlewood identities for Macdonald polynomials. These identities, which take the form of decomposition formulas for Macdonald polynomials of type R/S in terms of ordinary Macdonald polynomials, are q, t analogues of known branching formulas for characters of the symplectic, orthogonal, and special orthogonal groups. In the classical limit, our method implies that MacMahon's famous conjecture for the generating function of symmetric plane partitions in a box follows from the identification of $GL(n, \mathbb{R}) \times O(n)$ as a Gelfand pair. As further applications, we obtain combinatorial formulas for characters of affine Lie algebras, Rogers-Ramanujan identities for affine Lie algebras complementing recent results of Griffin et al, and quadratic transformation formulas for Kaneko Macdonald type basic hypergeometric series.

Homotopy in Exact Categories Jack Kelly, 2024-07-25 View the abstract

Advanced Mathematical Methods for Economic Efficiency Analysis Pedro Macedo, Victor Moutinho, Mara Madaleno, 2023-06-21 Economic efficiency analysis has received considerable worldwide attention in the last few decades with Stochastic Frontier Analysis (SFA) and Data Envelopment Analysis (DEA) establishing themselves as the two dominant approaches in the literature. This book, by combining cutting edge theoretical research on DEA and SFA with attractive real world applications, offers a valuable asset for professors, students, researchers, and professionals working in all branches of economic efficiency analysis, as well as those concerned with the corresponding economic policies. The book is divided into three parts, the first of which is devoted to basic concepts, making the content self-contained. The second is devoted to DEA, and the third to SFA. The topics covered in Part 2 range from stochastic DEA to multidirectional dynamic inefficiency analysis, including directional distance functions, the elimination and choice translating algorithm, benefit of the doubt, composite indicators, and internal benchmarking for efficiency evaluations. Part 3 also includes exciting and cutting edge theoretical research on, e.g., robustness, nonparametric stochastic frontier models, hierarchical panel data models, and estimation methods like corrected ordinary least squares and maximum entropy.

Tensor Categories for Vertex Operator Superalgebra Extensions Thomas Creutzig, Shashank Kanade, Robert McRae, 2024-04-17 View the abstract

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 data envelopment analysis (DEA) and parametric econometrics approaches to better understand how economic efficiency and market competitiveness are achieved for different types of partnerships and strategic alliances. Features Global contributions for a wide range of professionals and academics. Invaluable resources.

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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

Analytic Learning Methods for Pattern Recognition Kar-Ann Toh,Huiping Zhuang,Simon Liu,Zhiping Lin,2025-05-31 This textbook is a consolidation of learning methods which comes in an analytic form The covered learning methods include classical and advanced solutions to problems of regression minimum classification error maximum receiver operating characteristics bridge regression ensemble learning and network learning Both the primal and dual solution forms are discussed for over and under determined systems Such coverage provides an important perspective for handling systems with overwhelming samples or systems with overwhelming parameters For goal driven classification the solutions to minimum classification error maximum receiver operating characteristics bridge regression and ensemble learning represent recent advancements in the literature In this book the exercises offer instructors and students practical experience with real world applications

Assessing Writing to Support Learning Sandra Murphy,Peggy O'Neill,2022-11-08 In this book authors Murphy and O'Neill propose a new way forward moving away from high stakes test based writing assessment and the curriculum it generates and toward an approach to assessment that centers on student learning and success Reviewing the landscape of writing assessment and existing research based theories on writing the authors demonstrate how a test based approach to accountability and current practices have undermined effective teaching and learning of writing This book bridges the gap between real world writing that takes place in schools college and careers and the writing that students are asked to do in standardized writing assessments to offer a new ecological approach to writing assessment Murphy and O'Neill's new way forward turns accountability inside out to help teachers understand the role of formative assessments and assessment as inquiry It also brings the outside in by bridging the gap between authentic writing and writing assessment Through these two strands readers learn how assessment systems can be restructured to become better aligned with contemporary understandings of writing and with best practices in teaching With examples of assessments from elementary school through college chapters include guidance on designing assessments to address multiple kinds of writing integrate reading with writing and incorporate digital technology and multimodality Emphasizing the central role that teachers play in systemic reform the authors offer sample assessments developed with intensive teacher involvement that support learning and provide information for the evaluation of programs and schools This

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