

GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

1.1 Solve for x

1.1.1 $x^2 - 9x + 20 = 0$ (3)

1.1.2 $x(x + 3) - 1 = 0$ (correct to 2 decimal points) (3)

1.1.3 $x^2 + 7x < 0$ (3)

1.1.4 $2x^{\frac{2}{3}} = 64$ (4)

1.2 Solve simultaneously for x and y if:

$2x - y = 8$, and
 $x^2 - xy + y^2 = 19$ (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{16}}{\sqrt[3]{16}}$$

(4)

QUESTION 2

2.1 The terms p , $(2p + 2)$, $(5p + 3)$ form an arithmetic sequence.

Determine:

2.1.1 The value of p . (4)

2.1.2 The rule in the form of $a_n = a + (n - 1)d$. (2)

2.1.3 The 15th term of the sequence. (4)

2.2 x , y , 81 is a geometric sequence.
And $y = 2x - 5$
All terms in the sequences are integers.
Calculate the values of x and y . (10)

[24]

QUESTION 3

Given the sequence 2, 8, 10, 14,

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate T_{10} . (3)

3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

[12]

QUESTION 4

The sketch below shows the graph of $f(x) = \frac{-1}{x+5} + q$. The asymptotes of f intersects at $B(-1; y)$. The Point $D(5; 4)$ is a point on the graph.



4.1 Determine the value of p . (1)

4.2 Prove that $q = 5$. (2)

4.3 Calculate the x -intercept of f . (2)

4.4 Determine the equation of the vertical asymptote of h if $h(x) = f(x + 4)$. (2)

4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values x for $f(x) \geq x + 6$. (2)

4.7 Determine the equation of g , the reflection of f in the x -axis and move two units to the right. (3)

[15]

Mathematics Memorandum Paper 1 2013 November

A. Agrachev, D. Barilari, L. Rizzi



Mathematics Memorandum Paper 1 2013 November:

Mathematics And Its Teaching In The Southern Americas: With An Introduction By Ubiratan D'ambrosio Hector

Rosario, Bruce R Vogeli, Patrick Scott, 2014-09-26 This anthology presents a comprehensive review of mathematics and its teaching in the following nations in South America Central America and the Caribbean Argentina Bolivia Brazil Chile Colombia Costa Rica Cuba Guyana Haiti Honduras Mexico Panama Paraguay Peru Puerto Rico Trinidad and Tobago and Venezuela The last summary of mathematics education encompassing countries from the Southern Americas appeared in 1966 Progress in the field during five decades has remained unexamined until now **Formality of the Little \mathbb{N} -disks**

Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when *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 *Descent Construction*

for GSpin Groups Joseph Hundley, Eitan Sayag, 2016-09-06 In this paper the authors provide an extension of the theory of descent of Ginzburg Rallis Soudry to the context of essentially self dual representations that is representations which are isomorphic to the twist of their own contragredient by some Hecke character The authors theory supplements the recent work of Asgari Shahidi on the functorial lift from split and quasisplit forms of GSpin_{2n} to GL_{2n} **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 ρ be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of

to is irreducible In this paper the authors classify the triples of this form where is a disconnected maximal positive dimensional closed subgroup of preserving a natural geometric structure on

On Sudakov's Type Decomposition of Transference Plans with Norm Costs Stefano Bianchini, Sara Daneri, 2018-02-23 The authors consider the original strategy proposed by Sudakov for solving the Monge transportation problem with norm cost with probability measures in and absolutely continuous w r t The key idea in this approach is to decompose via disintegration of measures the Kantorovich optimal transportation problem into a family of transportation problems in where are disjoint regions such that the construction of an optimal map is simpler than in the original problem and then to obtain by piecing together the maps When the norm is strictly convex the sets are a family of dimensional segments determined by the Kantorovich potential called optimal rays while the existence of the map is straightforward provided one can show that the disintegration of and thus of on such segments is absolutely continuous w r t the dimensional Hausdorff measure When the norm is not strictly convex the main problems in this kind of approach are two first to identify a suitable family of regions on which the transport problem decomposes into simpler ones and then to prove the existence of optimal maps In this paper the authors show how these difficulties can be overcome and that the original idea of Sudakov can be successfully implemented The results yield a complete characterization of the Kantorovich optimal transportation problem whose straightforward corollary is the solution of the Monge problem in each set and then in The strategy is sufficiently powerful to be applied to other optimal transportation problems

Exotic Cluster Structures on SL_n : The Cremmer-Gervais Case M. Gekhtman, M. Shapiro, A. Vainshtein, 2017-02-20 This is the second paper in the series of papers dedicated to the study of natural cluster structures in the rings of regular functions on simple complex Lie groups and Poisson Lie structures compatible with these cluster structures According to our main conjecture each class in the Belavin Drinfeld classification of Poisson Lie structures on corresponds to a cluster structure in The authors have shown before that this conjecture holds for any in the case of the standard Poisson Lie structure and for all Belavin Drinfeld classes in In this paper the authors establish it for the Cremmer Gervais Poisson Lie structure on which is the least similar to the standard one

A Vector Field Method on the Distorted Fourier Side and Decay for Wave Equations with Potentials Roland Donn timer, Joachim Krieger, 2016-04-26 The authors study the Cauchy problem for the one dimensional wave equation $2tu_t + x^2u_{tt} + V(x)u = 0$ The potential V is assumed to be smooth with asymptotic behavior $V(x) \sim \frac{1}{4}x^{-2}$ as $x \rightarrow \infty$ They derive dispersive estimates energy estimates and estimates involving the scaling vector field $t \partial_t + x \partial_x$ where the latter are obtained by employing a vector field method on the distorted Fourier side In addition they prove local energy decay estimates Their results have immediate applications in the context of geometric evolution problems The theory developed in this paper is fundamental for the proof of the co dimension 1 stability of the catenoid under the vanishing mean curvature flow in Minkowski space see Donn timer Krieger Szeftel and Wong Codimension one stability of the catenoid under the vanishing mean curvature flow in Minkowski space preprint arXiv 1310.5606 2013

Federal Register ,2013-06 **Social Robots in Education** Georgios Lampropoulos,Stamatios Papadakis,2025-05-03

This book focuses on recent advances in the field of social robots and their integration in education It elaborates on the progressive evolution of human robot interaction and educational robotics the emergence of digital pedagogy and the implementation of personalized learning methodologies The book also examines the use of artificial intelligence AI in education through the lenses of social robots Hence the book offers an overview of recent research into the adoption integration advancements and impact of social robots and AI in education and presents guidelines and suggestions on how to integrate them in classrooms Specifically the book Provides an in depth overview of social robots and their use in education Presents the advances of social robots and AI in education Showcases innovative solutions and outcomes of integrating social robots in classrooms Discusses the challenges benefits and future research directions of using social robots and AI in education *Fluid Mechanics and Hydraulics* Vedat Batu,2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics

Studies in Intelligence ,2016 **Homological Mirror Symmetry for the Quartic Surface** Paul Seidel,2015-06-26 The

author proves Kontsevich s form of the mirror symmetry conjecture for on the symplectic geometry side a quartic surface in \mathbb{C}^3

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 Nonlinear Hyperbolic Equations —

Theory, Computation Methods, and Applications Josef Ballmann,Rolf Jeltsch,2013-03-08 On the occasion of the International Conference on Nonlinear Hyperbolic Problems held in St Etienne France 1986 it was decided to start a two years cycle of conferences on this very rapidly expanding branch of mathematics and it s applications in Continuum Mechanics and Aerodynamics The second conference took place in Aachen FRG March 14 18 1988 The number of more than 200

participants from more than 20 countries all over the world and about 100 invited and contributed papers well balanced between theory numerical analysis and applications do not leave any doubt that it was the right decision to start this cycle of conferences of which the third will be organized in Sweden in 1990 This volume contains sixty eight original papers presented at the conference twenty two of them dealing with the mathematical theory e.g. existence uniqueness stability behaviour of solutions physical modelling by evolution equations Twenty two articles in numerical analysis are concerned with stability and convergence to the physically relevant solutions such as schemes especially devised for treating shocks contact discontinuities and artificial boundaries Twenty four papers contain multidimensional computational applications to nonlinear waves in solids flow through porous media and compressible fluid flow including shocks real gas effects multiphase phenomena chemical reactions etc The editors and organizers of the Second International Conference on Hyperbolic Problems would like to thank the Scientific Committee for the generous support of recommending invited lectures and selecting the contributed papers of the conference

Fatigue Design Carl C. Osgood, 2013-10-22

Fatigue Design Second Edition discusses solutions of previous problems in fatigue as controlled by their particular conditions The book aims to demonstrate the limitations of some methods and explores the realism and validity of the resulting solutions The text is comprised of four chapters that tackle a specific area of concern Chapter 1 provides the introduction and covers the scope level and limitations of the book Chapter 2 deals with the characteristics of design approach and Chapter 3 talks about the prediction of fatigue life The last chapter discusses the general factors in fatigue The book will be of great interest to researchers and professionals concerned with fatigue analysis such as engineers and designers

Handbook of Measurement Issues in Family Research Sandra L. Hofferth, Lynne M. Casper, 2013-04-15 Dramatic societal changes have reshaped America's families Young adults have delayed marriage and cohabitation before marriage has become commonplace One in three women giving birth is unmarried and the proportion of children under 18 living in single parent families rose from 23 to 31 percent between 1980 and 2000 reflecting increased rates of both nonmarital childbearing and divorce This authoritative volume offers a blueprint for addressing some of the most important measurement issues in family research and it points out potential pitfalls for researchers and students who may not be familiar with data quality issues The Handbook of Measurement Issues in Family Research will appeal to scholars in the departments of psychology sociology and population studies as well as researchers working in governmental agencies

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 ρ is a function and μ 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

Integer Programming and Related Areas C. Kastning, 2013-11-11 Integer Programming is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut für Konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries

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