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: (4)

$$\frac{\sqrt{4^{2024}} + \sqrt{4^{2022}}}{\sqrt{16^{2022}}}$$

                                                [24]

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)

                                                [26]

QUESTION 3

Given the sequence 2; 6; 10; 14; ....

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

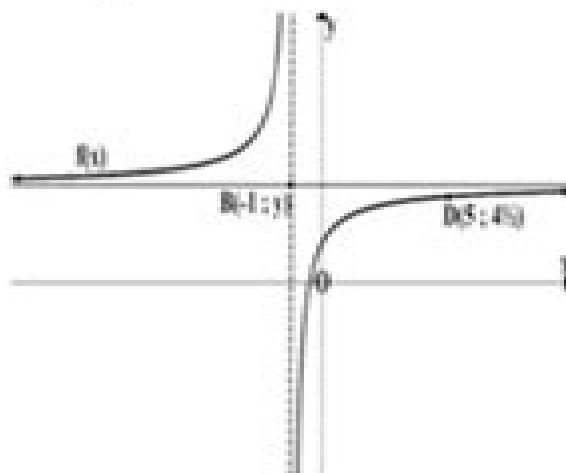3.2 Calculate T_{11}.   (3)

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 $f(x) = \frac{a}{x+p} + q$. The asymptotes of f intersects at $B(-1; y)$. The Point $D\left(5; 4\frac{1}{2}\right)$ is a point on the graph.

4.1 Determine the value of p.   (1)

4.2 Proof 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]

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Military Cost-Benefit Analysis Francois Melese,Anke Richter,Binyam Solomon,2015-03-27 This is the first comprehensive book on Military Cost Benefit Analysis and provides novel approaches to structuring cost benefit and affordability analysis amidst an uncertain defense environment and cloudy fiscal prospects Lifting the veil on military Cost Benefit Analysis this volume offers several new practical tools designed to guide defense investments and divestments combined with a selection of real world applications The widespread employment of Cost Benefit Analysis offers a unique opportunity to transform legacy defense forces into efficient effective and accountable 21st century organizations A synthesis of economics statistics and decision theory CBA is currently used in a wide range of defense applications in countries around the world i to shape national security strategy ii to set acquisition policy and iii to inform critical investments in people equipment infrastructure services and supplies As sovereign debt challenges squeeze national budgets and emerging threats disrupt traditional notions of security this volume offers valuable tools to navigate the political landscape meet calls for fiscal accountability and boost the effectiveness of defense investments to help guarantee future peace and stability A valuable resource for scholars practitioners novices and experts this book offers a comprehensive overview of Military Cost Benefit Analysis and will appeal to anyone interested or involved in improving national security and will also be of general interest to those responsible for major government programs projects or policies   *Irreducible Geometric Subgroups of Classical Algebraic Groups* Timothy C. Burness,,Soumaïa Ghandour,Donna M. Testerman,2016-01-25 Let be a simple classical algebraic group over an algebraically closed field of characteristic with natural module Let be a closed subgroup of and let 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   **Quadratic Vector Equations on Complex Upper Half-Plane** Oskari Ajanki,László Erdős,Torben Krüger,2019-12-02 The authors consider the nonlinear equation 1m z Sm with a parameter z in the complex upper half plane H where S is a positivity preserving symmetric linear operator acting on bounded functions The solution with values in H is unique and its z dependence is conveniently described as the Stieltjes transforms of a family of measures v on R In a previous paper the authors qualitatively identified the possible singular behaviors of v under suitable conditions on S we showed that in the density of v only algebraic singularities of degree two or three may occur In this paper the authors give a comprehensive analysis of these singularities with uniform quantitative controls They also find a universal shape describing the transition regime between the square root and cubic root singularities Finally motivated by random matrix applications in the authors companion paper they present a complete stability analysis of the equation for any z H including the vicinity of the singularities   **Quiver Grassmannians of Extended Dynkin Type D Part I: Schubert Systems and Decompositions into Affine Spaces** Oliver Lorscheid,Thorsten Weist,2019-12-02 Let Q be a quiver of

extended Dynkin type D n In this first of two papers the authors show that the quiver Grassmannian Gre M has a decomposition into affine spaces for every dimension vector e and every indecomposable representation M of defect 1 and defect 0 with the exception of the non Schurian representations in homogeneous tubes The authors characterize the affine spaces in terms of the combinatorics of a fixed coefficient quiver for M The method of proof is to exhibit explicit equations for the Schubert cells of Gre M and to solve this system of equations successively in linear terms This leads to an intricate combinatorial problem for whose solution the authors develop the theory of Schubert systems In Part 2 of this pair of papers they extend the result of this paper to all indecomposable representations M of Q and determine explicit formulae for the F polynomial of M **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 **Sums of Reciprocals of Fractional Parts and Multiplicative Diophantine Approximation** Victor Beresnevich,Alan Haynes,Sanju Velani,2020-04-03 **Railway Safety, Reliability, and Security: Technologies and Systems Engineering** Flammini, Francesco,2012-05-31 Human errors as well as deliberate sabotage pose a considerable danger to passengers riding on the modern railways and have created disastrous consequences To protect civilians against both intentional and unintentional threats rail transportation has become increasingly automated Railway Safety Reliability and Security Technologies and Systems Engineering provides engineering students and professionals with a collection of state of the art methodological and technological notions to support the development and certification of real time safety critical railway control systems as well as the protection of rail transportation infrastructures *Formality of the Little 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   The Disclosure of Climate Data from the Climatic Research Unit at the University of East Anglia Great Britain. Parliament. House of Commons. Select Committee on Science and Technology,2010 disclosure of climate data from the Climatic Research Unit at the University of East Anglia Eighth report of session 2009 10 Vol 2 Oral and written Evidence   **The Democratic Dilemma of American Education** Arnold Shober,2018-04-19 This compelling new book asks How can American education policy be consistent with democratic ideals Robust democracy is the combination of participation self rule equality understanding and inclusion but these norms can produce contradictory policy Local control in education policy can undermine educational equality Participation in teachers unions can improve working conditions but thwart self rule by local taxpayers The Democratic Dilemma of American Education draws on contemporary research in political science and education policy to offer remarkably balanced insights into these challenging issues Expertly navigating through local state and federal layers of education policy Arnold Shober examines contemporary controversies over education governance teachers unions and collective bargaining school funding school choice academic accountability and desegregation Shober describes the inherent practical dilemmas of current policy and the difficulties policymakers face in overcoming them to produce lasting educational reform in a democratic federal system of government Timely engaging and accessible this is the ideal resource for courses in public policy as well as education and politics   Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model Raphaël Cerf,2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen s model which incorporates stochastic effects The author considers a Moran model describing the evolution of a population of size of chromosomes of length over an alphabet of cardinality The mutation probability per locus is He deals only with the sharp peak landscape the replication rate is for the master sequence and for the other sequences He studies the equilibrium distribution of the process in the regime where   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   Hecke Operators and

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 C **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 H rmander s vector fields of step such that the highest order commutators are only H lder 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 H lder continuous The authors also prove estimates on this solution **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 is a function and 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 **American Universities and Colleges** Praeger Publishers,2010-04-16 For well over a half century American Universities and Colleges has been the most comprehensive and highly respected directory of four year institutions of higher education in the United States A two volume set that Choice magazine hailed as a most important resource in its November 2006 issue this revised edition features the most up to date statistical data available to guide students in making a smart yet practical decision in choosing the university or college of their dreams In addition the set serves as an indispensable reference source for parents college advisors educators and public academic and high school librarians These two volumes provide extensive information on 1 900 institutions of higher education including all accredited colleges and universities that offer at least the baccalaureate degree This essential resource offers pertinent statistical data on such topics as tuition room and board admission requirements financial aid enrollments student life library holdings accelerated and study abroad programs departments and teaching staff buildings and grounds and degrees conferred Volume two of the set provides four indexes including an institutional Index a subject accreditation index a levels of degrees offered index and a tabular index of

summary data by state These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics   *The Bank of England* Forrest Capie,2010-07-20 This history of the Bank of England takes its story from the 1950s to the end of the 1970s This period probably saw the peak of the Bank s influence and prestige as it dominated the financial landscape One of the Bank s central functions was to manage the exchange rate It was also responsible for administering all the controls that made up monetary policy In the first part of the period the Bank did all this with a remarkable degree of freedom But economic policy was a failure and sluggish output banking instability and rampant inflation characterised the 1970s The pegged exchange rate was discontinued and the Bank s freedom of movement was severely constrained as new approaches to policy were devised and implemented The Bank lost much of its freedom of movement but also took on more formal supervision   *Popular Science* ,1947-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better   Resources in Education ,1992-10

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