

**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2**

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 43^\circ + \cos 47^\circ$ (1)

1.1.2 $\tan^2 50^\circ$ (1)

1.1.3 $\cot 33^\circ + \operatorname{cosec} 15^\circ$ (1)

1.2 If $A = 34,3^\circ$ and $B = 22,2^\circ$, calculate the following to two decimal places:

1.2.1 $\sin (A + B)$ (2)

1.2.2 $\sec \left(\frac{A}{2}\right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30^\circ + \cos 60^\circ$ (1)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (1)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (1)

[12]

QUESTION 2

Without the use of a calculator, answer the following questions:

2.1 Given $\cos \theta = -\frac{1}{5}$ and $0^\circ \leq \theta \leq 180^\circ$
Use a diagram to determine the values of:

2.1.1 $\tan(180^\circ + \theta)$ (1)

2.1.2 $3\sin(\theta - 90^\circ)$ (2)

2.2 Simplify the following expression: $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(260^\circ + \pi)}$ (5)

2.3 Prove that: $\tan \theta \sqrt{\frac{1}{\sin^2 \theta} - 1} = 1$ (4)

2.4 Determine the general solution for: $3\sin^2 \theta + 1 = \sin \theta$ (6)

[28]

QUESTION 3

3.1 Sketch on the same set of axes the graphs for:

$f(x) = -2\cos x$ and $g(x) = \sin 2x$, for the interval $-90^\circ \leq x \leq 180^\circ$.

Show the coordinates of the turning points and all axis intercepts. (5)

3.2 Study the following sketch and determine the value of $\cos \theta - \cos \phi$, without the use of a calculator.



(5)
[10]

QUESTION 4

In the diagram below, the angle between line AB and the x-axis is β . The angle between line CD and the x-axis is θ . A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(\sqrt{3}, 2)$.

The intercept point E, of lines AB and CD lies on the y-axis. $\angle EDC = 63,69^\circ$

The equation of the line CD is given as: $3x + 2y = 6$



4.1 Determine the coordinates of E. (2)

4.2 Calculate the numerical value of α . (2)

4.3 Calculate the numerical value of β . (2)

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**Francois Melese, Anke Richter, Binyam
Solomon**



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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 \mathbb{C} 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

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

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 $V(x) \sim 14/x^2$ 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 Thinking and Acting Systemically Alan Daly, Kara Finnigan, 2016-05-19 This volume argues that districts are important as a lever for change given the limited success of school by school efforts Policies that focus on skill development recognize and support performance create opportunities for collaboration build leader capacity

and create networks of knowledge sharing hold great potential for improving districts but it will require a paradigm shift in the way we view our public school system and those who work within it away from blame and toward complex systems change

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

Digital Technology and the Practices of Humanities Research Jennifer Edmond, 2020-01-30 How does technology impact research practices in the humanities How does digitisation shape scholarly identity How do we negotiate trust in the digital realm What is scholarship what forms can it take and how does it acquire authority This diverse set of essays demonstrate the importance of asking such questions bringing together established and emerging scholars from a variety of disciplines at a time when data is increasingly being incorporated as an input and output in humanities sources and publications Major themes addressed include the changing nature of scholarly publishing in a digital age the different kinds of gate keepers for scholarship and the difficulties of effectively assessing the impact of digital resources The essays bring theoretical and practical perspectives into conversation offering readers not only comprehensive examinations of past and present discourse on digital scholarship but tightly focused case studies This timely volume illuminates the different forces underlying the shifting practices in humanities research today with especial focus on how humanists take ownership of and are empowered by technology in unexpected ways Digital Technology and the Practices of Humanities Research is essential reading for scholars students and general readers interested in the changing culture of research practices in the humanities and in the future of the digital humanities on the whole

Advancing the Frontiers of Heterodox Economics Tae-Hee Jo, Zdravka Todorova, 2015-07-30 This collection of essays honors the life and work of one of the most prominent and fervent heterodox economists Frederic S Lee who has been at the heart of the heterodox economics movements for the past three decades Authors in this book demonstrate that heterodox economic has transcended the criticism of mainstream economics and more importantly that constructive developments are in the making by way of cross communications among various heterodox economics traditions Frederic S Lee s contributions to heterodox economics are centered on three themes the making of a history and identity of heterodox economics heterodox microeconomics and the

heterodox analysis of social provisioning Part I addresses the importance of history theory research methods and institutions in the making of the identity of heterodox economics as an alternative to mainstream economics Part II delves into heterodox microeconomic theories in particular investment pricing competition markets and market governance as foundations of heterodox macroeconomic analyses Part III expands the analysis of the capitalist social provisioning process with an emphasis on its subsystems and their relationships over historical time Part IV encapsulates the life and work of Frederic S Lee Throughout his intellectual life Frederic S Lee has shown to many that the development of heterodox economics is rendered possible by unselfish and ceaseless efforts to build both theory and institutions Essays in this book attest that establishing an alternative critical theory to the status quo is not only possible but also serviceable to the majority of the population

Mayor Michael Bloomberg Lynne A. Weikart, 2021-09-15 In Mayor Michael Bloomberg Lynne A Weikart dives into the mayoralty of Michael Bloomberg offering an incisive analysis of Bloomberg s policies during his 2002 2014 tenure as mayor of New York and highlighting his impact on New York City politics Michael Bloomberg became mayor of New York just four months after the 9 11 terrorist destruction of the World Trade Center and he lead the rebuilding of a physically and emotionally devastated city so well that within two years the city had budget surpluses Weikart reveals how state and federal governments constrained Bloomberg s efforts to set municipal policy and implement his strategic goals in the areas of homelessness low income housing poverty education and crime External powers of state and federal governments are strong currents and Bloomberg s navigation of these currents often determined the outcome of his efforts Weikart evaluates Michael Bloomberg s mayoral successes and failures in the face of various challenges externally the constraints of state government and mandates imposed by federal and state courts and internally the impasse between labor unions and Bloomberg Weikart identifies and explores both the self created restrictions of Mayor Bloomberg s own management style and the courage of Mike Bloomberg s leadership

Culture and Human-Robot Interaction in Militarized Spaces Dr Julie Carpenter, 2016-01-28 Explosive Ordnance Disposal EOD personnel are some of the most highly trained people in the military with a job description that spans defusing unexploded ordnance to protecting VIP s and state dignitaries EOD are also one of the first military groups to work with robots every day These robots have become an increasingly important tool in EOD work enabling people to work at safer distances in many dangerous situations Based on exploratory research investigating interactions between EOD personnel and the robots they use this study richly describes the nuances of these reciprocal influences especially those related to operator emotion associated with the robots In particular this book examines the activities processes and contexts that influence or constrain everyday EOD human robot interactions what human factors are shaping the robotic technology and how people and culture are being changed by using it The findings from this research have implications for future personnel training and the refinement of robot design considerations for many fields that rely on critical small group communication and decision making skills

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

Thorium Energy for the World Jean-Pierre Revol, Maurice Bourquin, Yacine Kadi, Egil Lillestøl, Jean-Christophe de Mestral, Karel Samec, 2016-04-05 The Thorium Energy Conference ThEC13 gathered some of the world's leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term The latter would provide abundant reliable and safe energy with no CO₂ production no air pollution and minimal waste production The participants representatives of 30 countries included Carlo Rubbia Nobel Prize Laureate in physics and inventor of the Energy Amplifier Jack Steinberger Nobel Prize Laureate in physics Hans Blix former Director General of the International Atomic Energy Agency IAEA Rolf Heuer Director General of CERN Pascal Couchepin former President of the Swiss Confederation and Claude Haegi President of the FEDRE to name just a few The ThEC13 proceedings are a source of reference on the use of thorium for energy generation They offer detailed technical reviews of the status of thorium energy technologies from basic R D to industrial developments They also describe how thorium can be used in critical reactors and in subcritical accelerator driven systems ADS answering the important questions Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain What are the national and international R D programs on thorium technologies and how are they progressing ThEC13 was organized jointly by the international Thorium Energy Committee iThEC an association based in Geneva and the International Thorium Energy Organisation IThEO It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research CERN Geneva Switzerland in October 2013

Energy Security and Sustainable Economic Growth in China S. Yao, 2014-07-29 This book focuses on various issues of energy energy efficiency and environmental policy in China It discusses different aspects on how China may

maintain its fast economic growth through good management of energy consumption and development of various energy sources

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

Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia Karnaukhova, Oxana, Udovikina, Alexandra, Christiansen, Bryan, 2018-06-01 The Commonwealth of Independent States CIS is a regional organization that formed during the breakup of the Soviet Union in 1991 It has few supranational powers but aims to be more than a purely symbolic organization nominally possessing coordinating powers in the realm of trade finance lawmaking and security As such it is vital to examine this region and its economic and geopolitical impacts on the world Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia is a vital research publication that explores the importance and influence of the Commonwealth of Independent States and Eurasia in the twenty first century Highlighting a wide range of topics such as sovereign democracy economic integration and foreign policy this book is geared toward business managers economists business professionals entrepreneurs business analysts and researchers seeking current research on the effects of political organizations like the CIS on various regions

An Illustrated Guide to Linear Programming Saul I. Gass, 2013-04-09 Entertaining nontechnical introduction covers basic concepts of linear programming and its relationship to operations research geometric interpretation and problem solving solution techniques network problems much more Only high school algebra needed

Books in Print Supplement, 1984 Handbook of Educational Psychology David C. Berliner, Robert C. Calfee, 2013-02-01 Sponsored by Division 15 of APA the second edition of this groundbreaking book has been expanded to 41 chapters that provide unparalleled coverage of this far ranging field Internationally recognized scholars contribute up to date

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