

**GRADE 9 MATHEMATICS
 NOVEMBER EXAMINATION PAPER 2**

QUESTION 1

1.1 Draw a rhombus and indicate all properties in mathematical language. (5)

1.2 Choose the correct answer and write only the LETTER on your answer sheet.

1.2.1 Which of the following statements is NOT true about a kite?

- A. The longer diagonal bisects the shorter diagonal at 90°
- B. The shorter diagonal bisects the longer diagonal at 90°
- C. Diagonals bisect each other
- D. Diagonals are equal

1.2.2 An isosceles triangle has a top angle of 70° . The individual value of the equal angles will be:

- A. 60°
- B. 55°
- C. 70°
- D. 65°

1.2.3 A translation is:

- A. Any horizontal or vertical change in position of a shape.
- B. A mirror image of the original position.
- C. An enlargement of the original shape.
- D. A reduction of the original shape.

1.2.4 What is the length of AC in the figure below:



- A. 16cm
- B. 15cm
- C. 13cm
- D. 5cm

1.2.5 A point on a shape has coordinates $(-2; 3)$, what would the new coordinates be after a $y' = -x$ reflection

- A. $(3; -2)$
- B. $(2; 3)$
- C. $(-3; 2)$
- D. $(3; 2)$

(9)
 (10)

QUESTION 2: GEOMETRY

Use the following structure to answer this question:

Statement:	Reason:
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2.1 In the diagram below $\angle ASE = 65^\circ$ and $\angle DCF = 32^\circ$



2.1.1 Calculate the size of $\angle BAC$. Give reasons and show your calculations.

(3)

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S Ben Porath



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Landscape of 21st Century Mathematics Bogdan Grechuk, 2021-09-21 Landscape of 21st Century Mathematics offers a detailed cross section of contemporary mathematics Important results of the 21st century are motivated and formulated providing an overview of recent progress in the discipline The theorems presented in this book have been selected among recent achievements whose statements can be fully appreciated without extensive background Grouped by subject the selected theorems represent all major areas of mathematics number theory combinatorics analysis algebra geometry and topology probability and statistics algorithms and complexity and logic and set theory The presentation is self contained with context background and necessary definitions provided for each theorem all without sacrificing mathematical rigour Where feasible brief indications of the main ideas of a proof are given Rigorous yet accessible this book presents an array of breathtaking recent advances in mathematics It is written for everyone with a background in mathematics from inquisitive university students to mathematicians curious about recent achievements in areas beyond their own

Analytic Methods in Arithmetic Geometry Alina Bucur, David Zureick-Brown, 2019-11-22 In the last decade or so analytic methods have had great success in answering questions in arithmetic geometry and number theory The School provided a unique opportunity to introduce graduate students to analytic methods in arithmetic geometry The book contains four articles Alina C Cojocaru's article introduces sieving techniques to study the group structure of points of the reduction of an elliptic curve modulo a rational prime via its division fields Harald A Helfgott's article provides an introduction to the study of growth in groups of Lie type with SL_2 F_q and some of its subgroups as the key examples The article by tienne Fouvry Emmanuel Kowalski Philippe Michel and Will Sawin describes how a systematic use of the deep methods from adic cohomology pioneered by Grothendieck and Deligne and further developed by Katz and Laumon help make progress on various classical questions from analytic number theory The last article by Andrew V Sutherland introduces Sato Tate groups and explores their relationship with Galois representations motivic L functions and Mumford Tate groups

Space - Time - Matter Jochen Brüning, Matthias Staudacher, 2018-04-09 This monograph describes some of the most interesting results obtained by the mathematicians and physicists collaborating in the CRC 647 Space Time Matter in the years 2005 2016 The work presented concerns the mathematical and physical foundations of string and quantum field theory as well as cosmology Important topics are the spaces and metrics modelling the geometry of matter and the evolution of these geometries The partial differential equations governing such structures and their singularities special solutions and stability properties are discussed in detail Contents Introduction Algebraic K theory assembly maps controlled algebra and trace methods Lorentzian manifolds with special holonomy Constructions and global properties Contributions to the spectral geometry of locally homogeneous spaces On conformally covariant differential operators and spectral theory of the holographic Laplacian Moduli and deformations Vector bundles in algebraic geometry and mathematical physics Dyson Schwinger equations Fix point

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Feichtinger, Fabio Nicola, Alessandro Oliaro, Anita Tabacco, 2019-01-30 The chapters in this volume are based on talks given at the inaugural Aspects of Time Frequency Analysis conference held in Turin Italy from July 5-7 2017 which brought together experts in harmonic analysis and its applications New connections between different but related areas were presented in the context of time frequency analysis encouraging future research and collaborations Some of the topics covered include Abstract harmonic analysis Numerical harmonic analysis Sampling theory Compressed sensing Mathematical signal processing Pseudodifferential operators and Applications of harmonic analysis to quantum mechanics Landscapes of Time Frequency Analysis will be of particular interest to researchers and advanced students working in time frequency analysis and other related areas of harmonic analysis **Progress in Mathematical Fluid Dynamics** Tristan Buckmaster, Sunčica Čanić, Peter Constantin, Alexander A. Kiselev, 2020-09-28 This volume brings together four contributions to mathematical fluid

mechanics a classical but still highly active research field The contributions cover not only the classical Navier Stokes equations and Euler equations but also some simplified models and fluids interacting with elastic walls The questions addressed in the lectures range from the basic problems of existence blow up of weak and more regular solutions to modeling and aspects related to numerical methods This book covers recent advances in several important areas of fluid mechanics An output of the CIME Summer School Progress in mathematical fluid mechanics held in Cetraro in 2019 it offers a collection of lecture notes prepared by T Buckmaster Princeton S Canic UCB P Constantin Princeton and A Kiselev Duke These notes will be a valuable asset for researchers and advanced graduate students in several aspects of mathematical fluid mechanics Hardy Type Inequalities on Time Scales Ravi P. Agarwal, Donal O'Regan, Samir H. Saker, 2016-10-20 The book is devoted to dynamic inequalities of Hardy type and extensions and generalizations via convexity on a time scale T In particular the book contains the time scale versions of classical Hardy type inequalities Hardy and Littlewood type inequalities Hardy Knopp type inequalities via convexity Copson type inequalities Copson Beesack type inequalities Liendeler type inequalities Levinson type inequalities and Pachpatte type inequalities Bennett type inequalities Chan type inequalities and Hardy type inequalities with two different weight functions These dynamic inequalities contain the classical continuous and discrete inequalities as special cases when $T = \mathbb{R}$ and $T = \mathbb{N}$ and can be extended to different types of inequalities on different time scales such as $T = h\mathbb{N}$ $h > 0$ $T = q\mathbb{N}$ for $q > 1$ etc In this book the authors followed the history and development of these inequalities Each section is self contained and one can see the relationship between the time scale versions of the

inequalities and the classical ones To the best of the authors knowledge this is the first book devoted to Hardy type inequalities and their extensions on time scales

Time Optimal Control of Evolution Equations Gengsheng Wang, Lijuan Wang, Yashan Xu, Yubiao Zhang, 2018-08-22 This monograph develops a framework for time optimal control problems focusing on minimal and maximal time optimal controls for linear controlled evolution equations Its use in optimal control provides a welcome update to Fattorini's work on time optimal and norm optimal control problems By discussing the best way of representing various control problems and equivalence among them this systematic study gives readers the tools they need to solve practical problems in control After introducing preliminaries in functional analysis evolution equations and controllability and observability estimates the authors present their time optimal control framework which consists of four elements a controlled system a control constraint set a starting set and an ending set From there they use their framework to address areas of recent development in time optimal control including the existence of admissible controls and optimal controls Pontryagin's maximum principle for optimal controls the equivalence of different optimal control problems and bang bang properties This monograph will appeal to researchers and graduate students in time optimal control theory as well as related areas of controllability and dynamic programming For ease of reference the text itself is self contained on the topic of time optimal control Frequent examples throughout clarify the applications of theorems and definitions although experience with functional analysis and differential equations will be useful

Intelligent Systems Modeling and Simulation III Samsul Ariffin Abdul Karim, 2024-09-21 This book continues the previous edition Samsul Ariffin Abdul Karim 2022 Intelligent Systems Modeling and Simulation II Machine Learning Neural Networks Efficient Numerical Algorithm and Statistical Methods Studies in Systems Decision and Control SSDC volume 444 22k Access After two years Intelligent Systems Modeling and Simulation have evolved tremendously through the latest and advanced emergence technologies and many highly sophisticated algorithms have been developed by blending artificial intelligence AI and mathematics statistics data modelling and other related research areas These blends offer many opportunities and further investigations into the overlap and equality between these areas It is a well known fact that most industries and companies have utilized this IR4.0 architecture in various levels of manufacturing and decision processes Besides nowadays IR5.0 or Society 5.0 has also been embedded into various systems in industries as well as in Teaching and Learning TL The combination of IR4.0 and Society 5.0 may result in more impactful outcomes especially in automated decision making and reliable simulations based modelling Furthermore IR4.0 and Society 5.0 through Data Driven have made a significant contribution to the government and companies to analyse big data via predictive analytics Cyber security firewalls on all systems must be up to date to prevent any malicious attacks by hackers Otherwise our citizens might be scammed and according to NBC News the total loss for 2022 is around USD 8.8 billion These are very huge amount Just recently COVID 19 has been spreading all over the world again To assist the Ministry of Health MOH and other government agencies it is very crucial to identify predict detect and quarantine the COVID 19 on

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Fractals in pure mathematics David Carfi, Michel Laurent Lapidus, Erin P. J. Pearse, Machiel Van Frankenhuysen, 2013-10-22 This volume contains the proceedings from three conferences the PISRS 2011 International Conference on Analysis Fractal Geometry Dynamical Systems and Economics held November 8 12 2011 in Messina Italy the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics in memory of Benoit Mandelbrot held January 4 7 2012 in Boston MA and the AMS Special Session on Geometry and Analysis on Fractal Spaces held March 3 4 2012 in

Honolulu HI Articles in this volume cover fractal geometry and some aspects of dynamical systems in pure mathematics Also included are articles discussing a variety of connections of fractal geometry with other fields of mathematics including probability theory number theory geometric measure theory partial differential equations global analysis on non smooth spaces harmonic analysis and spectral geometry The companion volume Contemporary Mathematics Volume 601 focuses on applications of fractal geometry and dynamical systems to other sciences including physics engineering computer science economics and finance

Harmonic Analysis, Partial Differential Equations, Complex Analysis, Banach Spaces, and Operator Theory (Volume 1) María Cristina Pereyra, Stefania Marcantognini, Alexander M. Stokolos, Wilfredo Urbina, 2016-09-15 Covering a range of subjects from operator theory and classical harmonic analysis to Banach space theory this book contains survey and expository articles by leading experts in their corresponding fields and features fully refereed high quality papers exploring new results and trends in spectral theory mathematical physics geometric function theory and partial differential equations Graduate students and researchers in analysis will find inspiration in the articles collected in this volume which emphasize the remarkable connections between harmonic analysis and operator theory Another shared research interest of the contributors of this volume lies in the area of applied harmonic analysis where a new notion called chromatic derivatives has recently been introduced in communication engineering The material for this volume is based on the 13th New Mexico Analysis Seminar held at the University of New Mexico April 3 4 2014 and on several special sections of the Western Spring Sectional Meeting at the University of New Mexico April 4 6 2014 During the event participants honored the memory of Cora Sadosky a great mathematician who recently passed away and who made significant contributions to the field of harmonic analysis Cora was an exceptional mathematician and human being She was a world expert in harmonic analysis and operator theory publishing over fifty five research papers and authoring a major textbook in the field Participants of the conference include new and senior researchers recent doctorates as well as leading experts in the area

Vertex Operator Algebras, Number Theory and Related Topics Matthew Krauel, Michael Tuite, Gaywalee Yamskulna, 2020-07-13 This volume contains the proceedings of the International Conference on Vertex Operator Algebras Number Theory and Related Topics held from June 11 15 2018 at California State University Sacramento California The mathematics of vertex operator algebras vector valued modular forms and finite group theory continues to provide a rich and vibrant landscape in mathematics and physics The resurgence of moonshine related to the Mathieu group and other groups the increasing role of algebraic geometry and the development of irrational vertex operator algebras are just a few of the exciting and active areas at present The proceedings center around active research on vertex operator algebras and vector valued modular forms and offer original contributions to the areas of vertex algebras and number theory surveys on some of the most important topics relevant to these fields introductions to new fields related to these and open problems from some of the leaders in these areas

Elliptic and Parabolic Equations Joachim Escher, Elmar Schrohe, Jörg Seiler, Christoph

Walker,2015-06-04 The international workshop on which this proceedings volume is based on brought together leading researchers in the field of elliptic and parabolic equations Particular emphasis was put on the interaction between well established scientists and emerging young mathematicians as well as on exploring new connections between pure and applied mathematics The volume contains material derived after the workshop taking up the impetus to continue collaboration and to incorporate additional new results and insights

Random Growth Models Michael Damron,Firas Rassoul-Agha,Timo Seppäläinen,2018-09-27 The study of random growth models began in probability theory about 50 years ago and today this area occupies a central place in the subject The considerable challenges posed by these models have spurred the development of innovative probability theory and opened up connections with several other parts of mathematics such as partial differential equations integrable systems and combinatorics These models also have applications to fields such as computer science biology and physics This volume is based on lectures delivered at the 2017 AMS Short Course Random Growth Models held January 2 3 2017 in Atlanta GA The articles in this book give an introduction to the most studied models namely first and last passage percolation the Eden model of cell growth and particle systems focusing on the main research questions and leading up to the celebrated Kardar Parisi Zhang equation Topics covered include asymptotic properties of infection times limiting shape results fluctuation bounds and geometrical properties of geodesics which are optimal paths for growth

Stochastic Disorder Problems Albert N. Shiryaev,2019-03-12 This monograph focuses on those stochastic quickest detection tasks in disorder problems that arise in the dynamical analysis of statistical data These include quickest detection of randomly appearing targets of spontaneously arising effects and of arbitrage in financial mathematics There is also currently great interest in quickest detection methods for randomly occurring intrusions in information systems and in the design of defense methods against cyber attacks The author shows that the majority of quickest detection problems can be reformulated as optimal stopping problems where the stopping time is the moment the occurrence of disorder is signaled Thus considerable attention is devoted to the general theory of optimal stopping rules and to its concrete problem solving methods The exposition covers both the discrete time case which is in principle relatively simple and allows step by step considerations and the continuous time case which often requires more technical machinery such as martingales supermartingales and stochastic integrals There is a focus on the well developed apparatus of Brownian motion which enables the exact solution of many problems The last chapter presents applications to financial markets Researchers and graduate students interested in probability decision theory and statistical sequential analysis will find this book useful

Differential Geometry Ion Mihai,2019-11-21 The present book contains 14 papers published in the Special Issue Differential Geometry of the journal Mathematics They represent a selection of the 30 submissions This book covers a variety of both classical and modern topics in differential geometry We mention properties of both rectifying and affine curves the geometry of hypersurfaces angles in Minkowski planes Euclidean submanifolds differential operators and harmonic forms on

Riemannian manifolds complex manifolds contact manifolds in particular Sasakian and trans Sasakian manifolds curvature invariants and statistical manifolds and their submanifolds in particular Hessian manifolds We wish to mention that among the authors there are both well known geometers and young researchers The authors are from countries with a tradition in differential geometry Belgium China Greece Japan Korea Poland Romania Spain Turkey and United States of America Many of these papers were already cited by other researchers in their articles This book is useful for specialists in differential geometry operator theory physics and information geometry as well as graduate students in mathematics

Spectral Analysis of N-Body Schrödinger Operators at Two-Cluster Thresholds Erik Skibsted, Xue Ping Wang, 2024-07-03 This book provides a systematic study of spectral and scattering theory for many body Schrödinger operators at two cluster thresholds While the two body problem reduced after separation of the centre of mass motion to a one body problem at zero energy is a well studied subject the literature on many body threshold problems is sparse However the authors analysis covers for example the system of three particles interacting by Coulomb potentials and restricted to a small energy region to the right of a fixed nonzero two body eigenvalue In general the authors address the question How do scattering quantities for the many body atomic and molecular models behave within the limit when the total energy approaches a fixed two cluster threshold This includes mapping properties and singularities of the limiting scattering matrix asymptotics of the total scattering cross section and absence of transmission from one channel to another in the small inter cluster kinetic energy region The authors principal tools are the Feshbach Grushin dimension reduction method and spectral analysis based on a certain Mourre estimate Additional topics of independent interest are the limiting absorption principle micro local resolvent estimates Rellich and Sommerfeld type theorems and asymptotics of the limiting resolvents at thresholds The mathematical physics field under study is very rich and there are many open problems several of them stated explicitly in the book for the interested reader

Logic, Language, Information, and Computation Rosalie Iemhoff, Michael Moortgat, Ruy de Queiroz, 2019-06-23 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 26th Workshop on Logic Language Information and Communication WoLLIC 2019 held in Utrecht The Netherlands in July 2019 The 41 full papers together with 6 invited lectures presented were fully reviewed and selected from 60 submissions The idea is to have a forum which is large enough in the number of possible interactions between logic and the sciences related to information and computation and yet is small enough to allow for concrete and useful interaction among participants

Partial Differential Equations in Anisotropic Musielak-Orlicz Spaces Iwona Chlebicka, Piotr Gwiazda, Agnieszka Świerczewska-Gwiazda, Aneta Wróblewska-Kamińska, 2021-11-01 This book provides a detailed study of nonlinear partial differential equations satisfying certain nonstandard growth conditions which simultaneously extend polynomial inhomogeneous and fully anisotropic growth The common property of the many different kinds of equations considered is that the growth conditions of the highest order operators lead to a formulation of

the equations in Musielak Orlicz spaces This high level of generality understood as full anisotropy and inhomogeneity requires new proof concepts and a generalization of the formalism calling for an extended functional analytic framework This theory is established in the first part of the book which serves as an introduction to the subject but is also an important ingredient of the whole story The second part uses these theoretical tools for various types of PDEs including abstract and parabolic equations but also PDEs arising from fluid and solid mechanics For connoisseurs there is a short chapter on homogenization of elliptic PDEs The book will be of interest to researchers working in PDEs and in functional analysis

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