



basic education

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REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

01428

986/2021

QUESTION 1

- 1.1 Solve for x :
 - 1.1.1 $x^2 + 3x + 2 = 0$ (5)
 - 1.1.2 $3x^2 + x - 4 = 0$ (Show partial solution in TWO distinct parts) (10)
 - 1.1.3 $x^2 = 49$ (5)
- 1.2 Given $y = \frac{3x^2 + 5}{x}$:
 - 1.2.1 Solve for x (5)
 - 1.2.2 Hence solve for x : $2x^2 + 22x = 49$ (5)
- 1.3 Without using a calculator, calculate the value of $\sqrt{\frac{36x^2 + 25}{121x^2}}$ (5)
- 1.4 Solve for x and y simultaneously:
 $(x + y + 2) = \frac{1}{x}$ and $\frac{1}{y} = 4y + 1$ (10)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38.
 Determine:
 - 2.1.1 d , the common difference of the sequence (5)
 - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
 - 2.1.3 The sum of the first 40 terms in the sequence (5)
- 2.2 $16, 25, 36, 49, \dots$ is a positive number pattern.
 - 2.2.1 Write down the 10th term of the number pattern (5)
 - 2.2.2 Determine the n^{th} term of the number pattern (5)
 - 2.2.3 Determine the maximum value of the following number pattern:
 $-12, -\frac{12}{2}, -\frac{12}{4}, -\frac{12}{8}, \dots$ (5)

Mathematics Paper 1 03 June 2013 Memorandum

Jay P. Greene, Michael Q. McShane



Mathematics Paper 1 03 June 2013 Memorandum:

Federal Register ,2013-07 Cognitive Communication and Cooperative HetNet Coexistence Maria-Gabriella Di Benedetto,Faouzi Bader,2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping biomimetic learning for self organizing networks security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks Communications engineers R D engineers researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks Access to Scientific Research David J. Brown,2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future *Global Flood Hazard* Guy J-P. Schumann,Paul D. Bates,Heiko Apel,Giuseppe T. Aronica,2018-06-05 Global Flood Hazard Subject Category Winner PROSE Awards 2019 Earth Science Selected from more than 500 entries demonstrating exceptional scholarship and making a significant contribution to the field of study Flooding is a costly natural disaster in terms of damage to land property and infrastructure This volume describes the latest tools and technologies for modeling mapping and predicting large scale flood risk It also presents readers with a range of remote sensing data sets successfully used for predicting and mapping floods at different scales These resources can enable policymakers public planners and developers to plan for and respond to flooding with greater accuracy and effectiveness Describes the latest large scale modeling approaches including hydrological models 2 D flood inundation models and global flood forecasting models Showcases new tools and technologies such as Aqueduct a new web based tool used for global assessment and projection of future flood risk under climate change scenarios Features case studies describing best practice uses of modeling techniques tools and technologies Global Flood Hazard is an indispensable resource for researchers consultants practitioners and policy makers dealing with flood risk flood disaster response flood management and flood mitigation **A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials** Florica C. Cîrstea,2014-01-08 In particular for $b = 1$ and 0 we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of $\Delta u = h|u|^{p-2}u$ thus

addressing an open question of V zquez and V ron **Failure Up Close** Jay P. Greene, Michael Q. McShane, 2018-01-17 For many reasons failure in education reform is rarely admitted Even though it is incredibly hard work to try and improve the enormous and diverse American education system because there are political consequences of admitting that a particular effort did not live up to its promises and pressure from philanthropic funders to show success unsuccessful efforts are often swept under the rug or papered over with public relations efforts that avoid wrestling with the tough realities of educational improvement This doesn't help anyone As any educator will tell you failure is an essential part of learning Insofar as education reform needs to be a learning movement itself it has to be able to admit where it has failed and learn from it Failure Up Close engages a select group of scholars from across the ideological spectrum to examine particular education reform efforts of recent years that have not succeeded and offer lessons for school and system improvement that can be learned from them Rather than view failure as negative this volume looks at failure as an opportunity to learn and grow In fact the editors endeavored to find authors that would analyze reforms for which they had some fundamental sympathy The goal is not to bash particular efforts or castigate their supporters but rather to help those supporters understand how to do what they do better and ultimately do better for children

The Emergence of Geophysics: A Journey into the Twentieth Century R.J. Howarth, 2024-12-02 How did geophysics begin Who were the pioneers of this new science What instruments did they devise to measure the Earth related phenomena they were interested in This Memoir attempts to answer such questions in a well illustrated and largely non technical account The seventeenth century saw magnetism used as an aid to prospecting for iron ore in Sweden and Isaac Newton's derivation of the law of gravitational attraction A gradually increasing interest in physics of the Earth brought forth the new discipline of geophysics in the early nineteenth century and by the end of the following century airborne and satellite based investigations had become routine The Emergence of Geophysics explores this evolution in several parallel strands terrestrial magnetism and electricity gravity seismicity heat geodynamics and radioactivity broadly reflecting the timing of their introduction as tools aiding geophysical studies Biographical information is included for many of its practitioners and the book should be of interest to both geophysicists and to anyone interested in the history of Earth science

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

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

Stability of Time Dependent and Spatially Varying Flows D.L. Dwyer, M.Y. Hussaini, 2013-03-09 This volume is the collection of papers presented at the workshop on The Stability of Spatially Varying and Time Dependent Flows sponsored by the Institute for Computer Applications in Science and Engineering ICASE and NASA Langley Research Center LaRC during August 19-23 1985 The purpose of this workshop was to bring together some of the experts in the field for an exchange of ideas to update the current status of knowledge and to help identify trends for future research Among the invited speakers were D M Bushnell M Goldstein P Hall Th Herbert R E Kelly L Mack A H Nayfeh F T Smith and C von Kerczek The contributed papers were by A Bayliss R Bodonyi S Cowley C Grosch S Lekoudis P Monkewitz A Patera and C Streett In the first article Bushnell provides a historical background on laminar flow control LFC research and summarizes the crucial role played by stability theory in LFC system design He also identifies problem areas in stability theory requiring further research from the view point of applications to LFC design It is an excellent article for theoreticians looking for some down to earth applications of stability theory

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