

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:

$$\frac{\sqrt[3]{4} + \sqrt[3]{2}}{\sqrt[3]{16}}$$

(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 $D(5; 4q)$ 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 Paper Memo 2013

Tobias Bleicker



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of Teaching and Learning Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2014 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide *OECD Economic Surveys: Russian Federation 2013* OECD, 2014-01-15 This 2013 edition of OECD s period review of the Russian economy examines recent economic developments prospects and policies A special chapter covers boosting productivity by improving the business climate and skills **Generalized Descriptive Set Theory and Classification Theory** Sy-David

Friedman, Tapani Hyttinen, Vadim Kulikov, 2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences In this paper the authors study the generalization where countable is replaced by uncountable They explore properties of generalized Baire and Cantor spaces equivalence relations and their Borel reducibility The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations The authors results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations

Combinatorial Floer Homology Vin de Silva, Joel W. Robbin, Dietmar A. Salamon, 2014-06-05 The authors define combinatorial Floer homology of a transverse pair of noncontractible nonisotopic embedded loops in an oriented manifold without boundary prove that it is invariant under isotopy and prove that it is isomorphic to the original Lagrangian Floer homology Their proof uses a formula for the Viterbo Maslov index for a smooth lune in a manifold Algebraic

Combinatorics Eiichi Bannai, Etsuko Bannai, Tatsuro Ito, Rie Tanaka, 2021-02-22 Algebraic combinatorics is the study of combinatorial objects as an extension of the study of finite permutation groups or in other words group theory without groups. In the spirit of Delsarte's theory, this book studies combinatorial objects such as graphs, codes, designs, etc. in the general framework of association schemes, providing a comprehensive overview of the theory as well as pointing out to extensions.

Collected Papers. Volume VIII Florentin Smarandache, 2022-04-01 This eighth volume of Collected Papers includes 75 papers comprising 973 pages on theoretic and applied neutrosophics written between 2010-2022 by the author alone or in collaboration with the following 102 co-authors alphabetically ordered from 24 countries: Mohamed Abdel Basset Abdullah, Gamal Firoz Ahmad, Ahmad Yusuf Adhami, Ahmed B. Al Nafee, Ali Hassan Mumtaz, Ali Akbar Rezaei, Assia Bakali Ayoub, Bahnasse Azeddine, Elhassouny Durga, Banerjee Romualdas, Bausys Mircea, Bo Coianu, Traian Alexandru, Buda Bui, Cong Cuong, Emilia Calefariu, Ahmet Evik, Chang Su, Kim Victor, Christianto Dae, Wan Kim, Daud Ahmad, Arindam Dey, Partha Pratim Dey, Mamouni Dhar, H. A. Elagamy, Ahmed K. Essa, Sudipta Gayen, Bibhas C. Giri, Daniela G. Fu, Noel Batista, Hernandez Hojjatollah, Farahani Huda, E. Khalid, Irfan Deli, Saeid Jafari, T. M. T. P. Gb. L. N. Ja. Y. Ol, Sri Pati Jha, Sudan Jha, Ilanthenral Kandasamy, W. B. Vasantha, Kandasamy Darjan, Karaba, evi M. Karthika, Kawther F. Alhasan, Giruta Kazakeviciute, Januskeviciene, Qaisar Khan, Kishore Kumar, P. K. Prem, Kumar Singh, Ranjan Kumar, Maikel Leyva, V. Zquez, Mahmoud Ismail, Tahir Mahmood, Hafsa Masood, Malik Mohammad, Abobala Mai, Mohamed Gunasekaran, Manogaran Seema, Mehra Kalyan, Mondal Mohamed, Talea Mullai, Murugappan, Muhammad Akram, Muhammad Aslam, Malik Muhammad, Khalid Mahmood, Nivetha, Martin Durga, Nagarajan, Nguyen Van Dinh, Nguyen Xuan Thao, Lewis Nkenyereya, Jagan M. Obbineni, M. Parimala, S. K. Patro, Peide Liu, Pham Hong Phong, Surapati, Pramanik, Gyanendra Prasad, Joshi Quek, Shio Gai, R. Radha, A. A. Salama, S. Satham, Hussain Mehmet, ahin Said, Broumi, Ganeshsree, Selvachandran, Selvaraj, Ganesan, Shahbaz, Ali Shouzheng, Zeng, Manjeet Singh, A. Stanis, Arul, Mary, Dragi, Stanujki, Yusuf, uba, Rui, Pu, Tan, Mirela, Teodorescu, Sel, uk, Topal, Zenonas, Turskis, Vakkas, Ulu, ay, Norberto, Valc, rcel, Izquierdo, V. Venkateswara, Rao, Volkan, Duran, Ying, Li, Young, Bae, Jun, Wadei, F. Al Omeri, Jian, qiang, Wang, Lihshing, Leigh, Wang, Edmundas, Kazimieras, Zavadskas.

Non-Semisimple Extended Topological Quantum Field Theories Marco De Renzi, 2022-05-24

View the abstract Conformal Symmetry Breaking Differential Operators on Differential Forms Matthias Fischmann, Andreas Juhl, Petr Somberg, 2021-06-18 We study conformal symmetry breaking differential operators which map differential forms on \mathbb{R}^n to differential forms on a codimension one subspace \mathbb{R}^{n-1} . These operators are equivariant with respect to the conformal Lie algebra of the subspace \mathbb{R}^{n-1} . They correspond to homomorphisms of generalized Verma modules for $\mathfrak{so}(n, 1)$ into generalized Verma modules for $\mathfrak{so}(n-1, 1)$, both being induced from fundamental form representations of a parabolic subalgebra. We apply the F-method to derive explicit formulas for such homomorphisms. In particular, we find explicit formulas for the generators of the intertwining operators of the related branching problems restricting generalized Verma modules for $\mathfrak{so}(n-1, 1)$ to $\mathfrak{so}(n-1)$. As consequences, we derive closed formulas for all conformal symmetry breaking differential

operators in terms of the first order operators d and \bar{d} and certain hypergeometric polynomials A dominant role in these studies is played by two infinite sequences of symmetry breaking differential operators which depend on a complex parameter Their values at special values of z appear as factors in two systems of factorization identities which involve the Branson-Govorkova operators of the Euclidean metrics on R^n and R^{n-1} and the operators d and \bar{d} as factors respectively Moreover they naturally recover the gauge companion and Q -curvature operators of the Euclidean metric on the subspace R^{n-1} respectively

A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials

Florica C. Cîrstea, 2014-01-08 In particular for $b \neq 1$ and 0 we find a sharp condition on h such that the origin is a removable singularity for all non-negative solutions of $\Delta u = h|u|^{b-2}u$ thus addressing an open question of Vázquez and Vron

Oxford Handbook of Numerical Cognition Roi Cohen Kadosh, Ann Dowker, 2015-07-30 How do we understand numbers Do animals and babies have numerical abilities Why do some people fail to grasp numbers and how we can improve numerical understanding Numbers are vital to so many areas of life in science economics sports education and many aspects of everyday life from infancy onwards Numerical cognition is a vibrant area that brings together scientists from different and diverse research areas e.g. neuropsychology cognitive psychology developmental psychology comparative psychology anthropology education and neuroscience using different methodological approaches e.g. behavioral studies of healthy children and adults and of patients electrophysiology and brain imaging studies in humans single cell neurophysiology in non-human primates habituation studies in human infants and animals and computer modeling While the study of numerical cognition had been relatively neglected for a long time during the last decade there has been an explosion of studies and new findings This has resulted in an enormous advance in our understanding of the neural and cognitive mechanisms of numerical cognition In addition there has recently been increasing interest and concern about pupils' mathematical achievement in many countries resulting in attempts to use research to guide mathematics instruction in schools and to develop interventions for children with mathematical difficulties This handbook brings together the different research areas that make up the field of numerical cognition in one comprehensive and authoritative volume The chapters provide a broad and extensive review that is written in an accessible form for scholars and students as well as educationalists clinicians and policy makers The book covers the most important aspects of research on numerical cognition from the areas of development psychology cognitive psychology neuropsychology and rehabilitation learning disabilities human and animal cognition and neuroscience computational modeling education and individual differences and philosophy Containing more than 60 chapters by leading specialists in their fields the *Oxford Handbook of Numerical Cognition* is a state-of-the-art review of the current literature

Disorder and the Disinformation Society Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as

a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

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

Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)

Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Collected Papers. Volume VI Florentin Smarandache , 2022-01-15 This sixth

volume of Collected Papers includes 74 papers comprising 974 pages on theoretic and applied neutrosophics written between 2015 2021 by the author alone or in collaboration with the following 121 co authors from 19 countries Mohamed Abdel Basset Abdel Nasser H Zaied Abdualлах Gamal Amir Abdullah Firoz Ahmad Nadeem Ahmad Ahmad Yusuf Adhami Ahmed Aboelfetouh Ahmed Mostafa Khalil Shariful Alam W Alharbi Ali Hassan Mumtaz Ali Amira S Ashour Asmaa Atef Assia Bakali Ayoub Bahnasse A A Azzam Willem K M Brauers Bui Cong Cuong Fausto Cavallaro Ahmet evik Robby I Chandra Kalaivani Chandran Victor Chang Chang Su Kim Jyotir Moy Chatterjee Victor Christianto Chunxin Bo Mihaela Colhon Shyamal Dalapati Arindam Dey Dunqian Cao Fahad Alsharari Faruk Karaaslan Aleksandra Fedajev Daniela G fu Hina Gulzar Haitham A El Ghareeb Masooma Raza Hashmi Hewayda El Ghawalby Hoang Viet Long Le Hoang Son F Nirmala Irudayam Branislav Ivanov S Jafari Jeong Gon Lee Milena Jevti Sudan Jha Junhui Kim Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Song I Karabatak Abdullah Karg n M Karthika Ieva Meidute Kavaliauskiene Madad Khan Majid Khan Manju Khari Kifayat Ullah K Kishore Kul Hur Santanu Kumar Patro Prem Kumar Singh Raghvendra Kumar Tapan Kumar Roy Malayalan Lathamaheswari Luu Quoc Dat T Madhumathi Tahir Mahmood Mladjan Maksimovic Gunasekaran Manogaran Nivetha Martin M Kasi Mayan Mai Mohamed Mohamed Talea Muhammad Akram Muhammad Gulistan Raja Muhammad Hashim Muhammad Riaz Muhammad Saeed Rana Muhammad Zulqarnain Nada A Nabeeh Deivanayagampillai Nagarajan Xenia Negrea Nguyen

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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 **Hello World** Hannah

Fry, 2018-09-18 Shortlisted for the 2018 Baillie Gifford Prize and the 2018 Royal Society Investment Science Book Prize A beautifully accessible guide One of the best books yet written on data and algorithms Times UK If you were accused of a crime who would you rather decide your sentence a mathematically consistent algorithm incapable of empathy or a compassionate human judge prone to bias and error What if you want to buy a driverless car and must choose between one programmed to save as many lives as possible and another that prioritizes the lives of its own passengers And would you agree to share your family s full medical history if you were told that it would help researchers find a cure for cancer These are just some of the dilemmas that we are beginning to face as we approach the age of the algorithm when it feels as if the machines reign supreme Already these lines of code are telling us what to watch where to go whom to date and even whom to send to jail But as we rely on algorithms to automate big important decisions in crime justice healthcare transportation and money they raise questions about what we want our world to look like What matters most Helping doctors with diagnosis or preserving privacy Protecting victims of crime or preventing innocent people being falsely accused Hello World takes us on a tour through the good the bad and the downright ugly of the algorithms that surround us on a daily basis Mathematician Hannah Fry reveals their inner workings showing us how algorithms are written and implemented and demonstrates the ways in which human bias can literally be written into the code By weaving in relatable real world stories with accessible explanations of the underlying mathematics that power algorithms Hello World helps us to determine their power expose their limitations and examine whether they really are improvement on the human systems they replace **World**

Education Patterns in the Global North C. C. Wolhuter, 2022-09-01 World Education Patterns in the Global North surveys the educational responses and new educational landscapes being developed as a consequence of powerful global forces demanding change within the Global North's educational contexts including North America Central and South East Europe and East Asia

Air Traffic Management and Systems II Electronic Navigation Research Institute, 2017-02-16 This book is a compilation of selected papers from the 4th ENRI International Workshop on ATM CNS EIWAC2015 The work focuses on novel techniques for aviation infrastructure in air traffic management ATM and communications navigation surveillance and informatics CNSI domains The contents make valuable contributions to academic researchers engineers in the industry and regulators of aviation authorities As well readers will encounter new ideas for realizing a more efficient and safer aviation system

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