

**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)

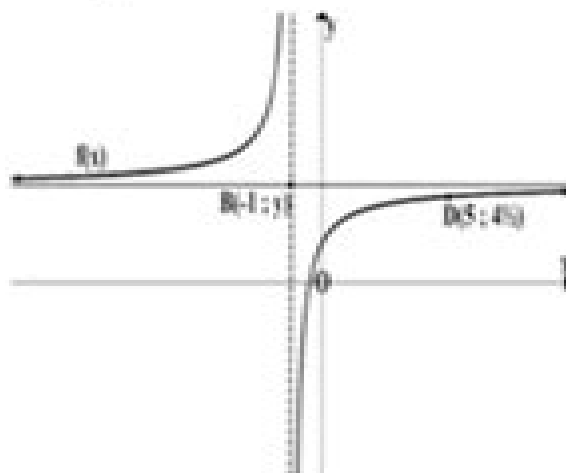
3.2 Calculate T_{10} . (3)

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 $D(5; 4)$ 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]

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SJ Ball



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Studies in Intelligence ,2016 *Show Me the Evidence* Ron Haskins,Greg Margolis,2014-12-01 The first comprehensive history of the Obama administration s evidence based initiatives From its earliest days the Obama administration planned and enacted several initiatives to fund social programs based on rigorous evidence of success Ron Haskins and Greg Margolis tell the story of six spanning preschool and K 12 education teen pregnancy employment and training health and community based programs Readers will appreciate the fast moving descriptions of the politics and policy debates that shaped these federal programs and the analysis of whether they will truly reshape federal social policy and greatly improve its impacts on the nation s social problems Based on interviews with 134 individuals including advocates officials at the Office of Management and Budget and the Domestic Policy Council Congressional staff and officials in the federal agencies administering the initiatives as well as Congressional and administration documents and news accounts the authors examine each of the six initiatives in separate chapters The story of each initiative includes a review of the social problem the initiative addresses the genesis and enactment of the legislation that authorized the initiative and the development of the procedures used by the administration to set the evidence standard and evaluation requirements including the requirements for grant applications and awarding of grants 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

Minimum Deterrence: Examining the Evidence Keith B. Payne,James Schlesinger,2016-04-14 The National Institute for Public Policy s new book Minimum Deterrence Examining the Evidence is the first of its kind Dr Keith Payne former Secretary of Defense James Schlesinger and an unparalleled bipartisan group of senior civilian and military experts critically examine eight basic assumptions of Minimum Deterrence against available evidence In general Minimum Deterrence does not fare well under the careful scrutiny Proponents of a Minimum Deterrent US nuclear force posture believe that anywhere from a handful to a few hundred nuclear weapons are adequate to deter reliably and predictably any enemy from attacking the United States now and in the future Because nuclear weapons are so destructive their thinking goes no foreign leader

would dare challenge US capabilities The benefits advocates claim of reducing US nuclear weapons to the minimum level needed are better relations with Russia and China reinforcement of the arms control and Nonproliferation Treaty billions of defense dollars in savings and greater international stability on the way to nuclear zero As political pressure builds to pursue this vision of minimum US deterrence Minimum Deterrence Examining the Evidence stands as the seminal study to address the many claims of great benefit using available evidence This book was published as a special issue of Comparative Strategy

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Ewa Deelman, Konrad Karczewski, 2018-03-22 The two volume set LNCS 10777 and 10778 constitutes revised selected papers from the 12th International Conference on Parallel Processing and Applied Mathematics PPAM 2017 held in Lublin Poland in September 2017 The 49 regular papers presented in this volume were selected from 98 submissions For the workshops and special sessions that were held as integral parts of the PPAM 2017 conference a total of 51 papers was accepted from 75 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing particle methods in simulations task based paradigm of parallel computing GPU computing parallel non numerical algorithms performance evaluation of parallel algorithms and applications environments and frameworks for parallel distributed cloud computing applications of parallel computing soft computing with applications and special session on parallel matrix factorizations Part II workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop power and energy aspects of computations PEAC 2017 workshop on scheduling for parallel computing SPC 2017 workshop on language based parallel programming models WLPP 2017 workshop on PGAS programming minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems **Smart Card Research and Advanced Applications** Naofumi Homma, Marcel Medwed, 2016-03-18 This book constitutes the thoroughly refereed post conference proceedings of the 14th International Conference on Smart Card Research and Advanced Applications CARDIS 2015 held in Bochum Germany in November 2015 The 17 revised full papers presented in this book were carefully reviewed and selected from 40 submissions The focus of the conference was on all aspects of the design development deployment validation and application of smart cards and secure elements in secure platforms or systems **Advances in Optimization and Applications** Nicholas Olenov, Yuri Evtushenko, Miloš J. Jaćimović, Michael Khachay, Vlasta Malkova, Igor Pospelov, 2023-01-01 This book constitutes the refereed proceedings of the 13th International Conference on Advances in Optimization and Applications OPTIMA 2022 held in Petrovac Montenegro during September 26-30 2022 The 13 full papers included in this book were carefully reviewed and selected from 26 submissions They were organized in topical sections as follows mathematical programming global optimization discrete and combinatorial optimization optimization and data analysis game theory and mathematical economics and applications Fluid Mechanics and Hydraulics Vedat Batu, 2024-05-27 Fluid Mechanics and Hydraulics

Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples. Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations. Other readers may have interest both in derivation details and their applications. As a result, this book is designed to address both needs and most derivation details are included as example problems. Therefore, those who are not interested in the details of derivations may skip them without interrupting the effective use of the book. It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics.

Algebraic $\overline{\mathbb{Q}}$ -Groups as Abstract Groups Olivier Frécon, 2018-10-03 The author analyzes the abstract structure of algebraic groups over an algebraically closed field F of characteristic zero and a given connected affine algebraic Q group. The main theorem describes all the affine algebraic Q groups such that the groups and $\overline{\mathbb{Q}}$ are isomorphic as abstract groups. In the same time, it is shown that for any two connected algebraic Q groups and $\overline{\mathbb{Q}}$, the elementary equivalence of the pure groups and $\overline{\mathbb{Q}}$ implies that they are abstractly isomorphic. In the final section, the author applies his results to characterize the connected algebraic groups all of whose abstract automorphisms are standard when $\overline{\mathbb{Q}}$ is either Q or of positive characteristic. In characteristic zero, a fairly general criterion is exhibited.

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Medial/Skeletal Linking Structures for Multi-Region Configurations James Damon, Ellen Gasparovic, 2018-01-16 The authors consider a generic configuration of regions consisting of a collection of distinct compact regions in which may be either regions with smooth boundaries disjoint from the others or regions which meet on their piecewise smooth boundaries in a generic way They introduce a skeletal linking structure for the collection of regions which simultaneously captures the regions individual shapes and geometric properties as well as the positional geometry of the collection The linking structure extends in a minimal way the individual skeletal structures on each of the regions This allows the authors to significantly extend the mathematical methods introduced for single regions to the configuration of regions

Digitizing Production Systems Numan M. Durakbasa, M. Güneş Gençyılmaz, 2021-11-10 This book contains selected papers from International Symposium for Production Research 2021 held on October 7-9 2021 online Turkey The book reports recent advances in production engineering and operations It explores topics including production research production management operations management industry 4.0 industrial engineering mechanical engineering engineering management and operational research Presenting real life applications case studies and mathematical models this book is of interest to researchers academics and practitioners in the field of production and operation engineering It provides both the results of recent research and practical solutions to real world problems

Reaching Outward and Upward Ian MacPherson, 2012-06-01 As the year 2013 and the fiftieth anniversary of the University of Victoria approaches Ian MacPherson offers a comprehensive history of one of Canada's most progressive and visually beautiful campuses A reflection on the people history and legacy of UVic once known as Victoria College a satellite of McGill University Reaching Outward and Upward brings five decades of learning to life From its beginnings in 1963 serving a mere handful of students in a hastily developed site UVic has grown to become one of Canada's leading universities serving over 20,000 students on one of Canada's most stunning university campuses Ian MacPherson examines how this transformation took place despite some difficult phases and all the challenges that accompany institutional transitions the development of new faculties growing student numbers struggles over funding equity issues and computerisation He looks at the university's development during the presidencies of Howard Petch 1975-1990 David Strong 1990-2000 and David Turpin 2000-present and suggests that new ways of knowing changed established disciplines and created new alliances among students and faculty and led to the creation of the numerous research centres for which UVic is well known A visually rich book including pictures quotations and sidebars Reaching Outward and Upward is above all a story of the communities on campus off campus local national international physical and electronic that together form the University of Victoria

Digital Forensics and Watermarking Yun Qing Shi, Hyoung Joong Kim, Fernando Perez-Gonzalez, Feng Liu, 2017-02-14 This book constitutes the revised post conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking IWDW 2016 held in Beijing China in September 2016 The 45 papers presented in this volume were carefully reviewed and selected from 70 submissions The contributions are organized in topical sections on digital forensics visual cryptography reversible data hiding and steganography and steganalysis Grace Hopper Kathleen Broome

Williams, 2013-01-15 When Grace Hopper retired as a rear admiral from the U S Navy in 1986 she was the first woman restricted line officer to reach flag rank and at the age of seventy nine the oldest serving officer in the Navy A mathematician by training who became a computer scientist the eccentric and outspoken Hopper helped propel the Navy into the computer age She also was a superb publicist for the Navy appearing frequently on radio and television and quoted regularly in newspapers and magazines Yet in spite of all the attention she received until now Amazing Grace as she was called has never been the subject of a full biography Kathleen Broome Williams looks at Hopper s entire naval career from the time she joined the WAVES and was sent in 1943 to work on the Mark I computer at Harvard where she became one of the country s first computer programmers Thanks to this early Navy introduction to computing the author explains Hopper had a distinguished civilian career in commercial computing after the war gaining fame for her part in the creation of COBOL The admiral s Navy days were far from over however and Williams tells how Hopper already past retirement age was recalled to active duty at the Pentagon in 1967 to standardize computer programming languages for Navy computers Her temporary appointment lasted for nineteen years while she standardized COBOL for the entire department of defense Based on extensive interviews with colleagues and family and on archival material never before examined this biography not only illuminates Hopper s pioneering accomplishments in a field that came to be dominated by men but provides a fascinating overview of computing from its beginnings in World War II to the late 1980s **CFA Program Curriculum 2018 Level II** CFA

Institute, 2017-08-01 Master the practical aspects of the CFA Program Curriculum with expert instruction for the 2018 exam The same official curricula that CFA Program candidates receive with program registration is now publicly available for purchase CFA Program Curriculum 2018 Level II Volumes 1 6 provides the complete Level II Curriculum for the 2018 exam with practical instruction on the Candidate Body of Knowledge CBOK and how it is applied including expert guidance on incorporating concepts into practice Level II focuses on complex analysis with an emphasis on asset valuation and is designed to help you use investment concepts appropriately in situations analysts commonly face Coverage includes ethical and professional standards quantitative analysis economics financial reporting and analysis corporate finance equities fixed income derivatives alternative investments and portfolio management organized into individual study sessions with clearly defined Learning Outcome Statements Charts graphs figures diagrams and financial statements illustrate complex concepts to facilitate retention and practice questions with answers allow you to gauge your understanding while reinforcing

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The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools

Handbook of Numerical Simulation of In-Flight Icing Wagdi George Habashi, 2023-12-11 This Handbook of Numerical Simulation of In Flight Icing covers an array of methodologies and technologies on numerical simulation of in flight icing and its applications Comprised of contributions from internationally recognized experts from the Americas Asia and the EU this authoritative self contained reference includes best practices and specification data spanning the gamut of simulation tools available internationally that can be used to speed up the certification of aircraft and make them safer to fly into known icing The collection features nine sections concentrating on aircraft rotorcraft jet engines UAVs ice protection

systems including hot air electrothermal and others sensors and probes CFD in the aid of testing flight simulators and certification process acceleration methods Incorporating perspectives from academia commercial government R D the book is ideal for a range of engineers and scientists concerned with in flight icing applications **Real-World Electronic Voting**

Feng Hao, Peter Y. A. Ryan, 2016-11-30 Real World Electronic Voting Design Analysis and Deployment captures all major developments in electronic voting since 2003 in a real world setting It covers three broad categories e voting protocols attacks reported on e voting and new developments on the use of e voting This book explores recent innovations in both poll site and remote voting systems and their application throughout the world The requirements of elections are analysed the available tools and technologies are described and a variety of modern systems are presented in detail together with discussions of deployments This is an invaluable resource for election professionals researchers and policy makers alike Key Features Reviews both technical and social aspects of e voting Covers e voting protocols attacks reported on e voting and new developments on the use of e voting Designed for government election practitioners and policy makers who want to understand the threats and opportunities in e voting and assess its suitability for future elections How to Win the War on Truth

Samuel C. Spitale, 2022-10-25 Made to Stick by Chip Heath meets Thing Explainer by Randall Munroe in this illustrated guide to navigating today's post truth landscape filled with real world examples of disinformation campaigns The average person receives 4 000 to 10 000 media messages a day It's no wonder we struggle to separate the news from the noise and fact from fiction but in these unprecedented times it's essential to democracy that we do For anyone struggling to figure out how to live and vote their values How to Win the War on Truth is here to help You'll learn The history of propaganda from Edward Bernays to Fox News Why simple messages are so powerful How social messaging creates unconscious biases Who profits from propaganda How propaganda is manufactured and delivered directly to you Filled with real world examples of disinformation campaigns that impact every citizen and clever illustration How to Win the War on Truth will help you see the world with clear eyes for the first time

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