

**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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Barbara Bridgman Perkins



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Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

Transactions on Computational Science XXIX Marina L. Gavrilova, C.J. Kenneth Tan, 2017-03-11 This the 29th issue of the Transactions on Computational Science journal is comprised of seven full papers focusing on the area of secure communication Topics covered include weak radio signals efficient circuits multiple antenna sensing techniques modes of inter computer communication and fault types geometric meshes and big data processing in distributed environments

Numerical Approximations of Stochastic Differential Equations with Non-Globally Lipschitz Continuous Coefficients Martin Hutzenthaler, Arnulf Jentzen, 2015-06-26 Many stochastic differential equations SDEs in the literature have a superlinearly growing nonlinearity in their drift or diffusion coefficient Unfortunately moments of the computationally efficient Euler Maruyama approximation method diverge for these SDEs in finite time This article develops a general theory based on rare events for studying integrability properties such as moment bounds for discrete time stochastic processes Using this approach the authors establish moment bounds for fully and partially drift implicit Euler methods and for a class of new explicit approximation methods which require only a few more arithmetical operations than the Euler Maruyama method These moment bounds are then used to prove strong convergence of the proposed schemes Finally the authors illustrate their results for several SDEs from finance physics biology and chemistry

Nuclear Science Abstracts, 1959 *Global Carleman Estimates for Degenerate Parabolic Operators with Applications* P. Cannarsa, P. Martinez, J. Vancostenoble, 2016-01-25 Degenerate parabolic operators have received increasing attention in recent years because they are associated with both important theoretical analysis such as stochastic diffusion processes and interesting applications to engineering physics biology and economics This manuscript has been conceived to introduce the reader to global Carleman estimates for a class of parabolic operators which may degenerate at the boundary of the space domain in the normal

direction to the boundary Such a kind of degeneracy is relevant to study the invariance of a domain with respect to a given stochastic diffusion flow and appears naturally in climatology models *Ploughshares and Swords* Jayita Sarkar,2022-07-15 India's nuclear program is often misunderstood as an inward looking endeavor of secretive technocrats In *Ploughshares and Swords* Jayita Sarkar challenges this received wisdom narrating a global story of India's nuclear program during its first forty years The book foregrounds the program's civilian and military features by probing its close relationship with the space program Through nuclear and space technologies India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home The nuclear program became a consensus enforcing device in the name of the nation *Ploughshares and Swords* is a provocative new history with global implications It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization Thanks to generous funding from the Swiss National Science Foundation the ebook editions of this book are available as Open Access volumes from Cornell Open cornellpress.cornell.edu/cornell-open and other repositories *Knowledge Discovery in Big Data from Astronomy and Earth Observation* Petr Skoda,Fathalrahman Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants *We Live for the We* Dani McClain,2019-04-02 A warm wise and urgent guide to parenting in uncertain times from a longtime reporter on race reproductive health and politics In *We Live for the We* first time mother Dani McClain sets out to understand how to raise her daughter in what she as a black woman knows to be an unjust even hostile society Black women are more likely to die during pregnancy or birth than any other race black mothers must stand before television cameras telling the world that their slain children were human beings What then is the best way to keep fear at bay and raise a child so she lives with dignity and joy McClain spoke with mothers on the frontlines of movements for social political and cultural change who are grappling with the same questions Following a child's development from infancy to the teenage years *We Live for the We* touches on everything from the importance of

creativity to building a mutually supportive community to navigating one's relationship with power and authority It is an essential handbook to help us imagine the society we build for the next generation

Cancer, Radiation Therapy, and the Market Barbara Bridgman Perkins, 2017-08-16 Appraising cancer as a major medical market in the 2010s Wall Street investors placed their bets on single technology treatment facilities costing 100-300 million each Critics inside medicine called the widely publicized proton center boom crazy medicine and unsustainable public policy There was no valid evidence they claimed that proton beams were more effective than less costly alternatives But developers expected insurance to cover their centers staggeringly high costs and debts Was speculation like this new to health care Cancer Radiation Therapy and the Market shows how the radiation therapy specialty in the United States later called radiation oncology coevolved with its device industry throughout the twentieth century Academic engineers and physicians acquired financing to develop increasingly powerful radiation devices initiated companies to manufacture the devices competitively and designed hospital and freestanding procedure units to utilize them In the process they incorporated market strategies into medical organization and practice Although palliative benefits and striking tumor reductions fueled hopes of curing cancer scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival This thoroughly documented and provocative inquiry concludes that public health policy needs to re-evaluate market-driven high-tech medicine and build evidence-based health care systems

Chronicle of Malaysia Philip Mathews, 2014-02-28 This revised and updated edition of the Chronicle of Malaysia brings the full dramatic sweep of Malaysia's history up to date taking the reader through the nation's first 50 years from the formation of Malaysia in 1963 all the way to 2013 It is packed with illustrated news stories covering hundreds of the nation's key social political cultural and sporting events As a compendium of all aspects of Malaysian life the book captures the mood of the day with a sense of vividness and immediacy Concise accessible articles revised and rewritten to engage today's readers are introduced by headlines and liberally illustrated with photographs and specially commissioned cartoons The book is structured chronologically with an average of eight pages devoted to each year beginning with a succinct summary of the year's key events A host of themes are covered not just the major political and economic events but also the human side of the Malaysian experience sports fashion music the arts architecture lifestyle disasters crime and the social scene These combine to give readers the feel of each era of Malaysia's past and enables them to draw parallels with the present

Long-Range Dependent Processes: Theory and Applications Ming Li, Carlo Cattani, 2022-12-05

The Third Reich Sourcebook Anson Rabinbach, Sander L. Gilman, 2013-07-10 This book is a collection of documents mostly translated from the German that covers the entire Third Reich from the beginnings of National Socialism in Munich in 1919 through the rise of Nazism in the 1930s and ultimately the defeat of the Third Reich It is wide-ranging covering the core doctrine of anti-Semitism education German youth women and marriage science health the Church literature visual arts music the body industry sports and the resistance

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This magnificent account of the coming of age of physics in America has been heralded as the best introduction to the history of science in the United States Unsurpassed in its breadth and literary style Kevles's account portrays the brilliant scientists who became a powerful force in bringing the world into a revolutionary new era The book ranges widely as it links these exciting developments to the social cultural and political changes that occurred from the post Civil War years to the present Throughout Kevles keeps his eye on the central question of how an avowedly elitist enterprise grew and prospered in a democratic culture In this new edition the author has brought the story up to date by providing an extensive authoritative and colorful account of the Superconducting Super Collider from its origins in the international competition and intellectual needs of high energy particle physics through its establishment as a multibillion dollar project to its termination in 1993 as a result of angry opposition within the American physics community and the Congress *Inside UVA.*, 1992 *Who's who Among Students in American Universities and Colleges* Henry Pettus Randall, 1971 *Чупова війна* Кріс Міллер, 2024-08-15

Chris Miller, 2023-02-24 TOP1 70 21 21 20 21 Lawrence H Summers Robert Kagan Robert D Kaplan Paul Kennedy Niall Ferguson Daniel Yergin Margaret O Mara The Code Silicon Valley and the Remaking of America 21 James Stavridis The Times Index, 2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement *Arts & Humanities Citation Index*, 2001

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