



Gr. 11

Technical Mathematics – Paper 1

Formal test – Term 2

Total: 100 points

Time: 2 hours

Learner's name: _____ Gr. 11: _____

Instructions and information:

- This paper consists of two questions, answer both questions.
- The use of a calculator is not permitted.
- No Tip – Ex may be used.
- Show all the steps needed to arrive at the answer.
- Strength!!

Content covered in this paper

- Algebra and logarithms
- Solve equations and applications
- Function analysis
- Rational functions
- Circle and hyperbola

QUESTION 1

1.1 Simplified, the complete WITHOUT the use of a calculator.

1.1.1 $(5\sqrt{3} - x^2)^2$ (2)

1.1.2 $\frac{2x^2 - 5x + 2}{x^2 - 4}$ (3)

1.1.3 $(\sqrt{3} - 1)(\sqrt{3} + 1)$ (3)

1.1.4 $\frac{x^2 - 4}{x^2 - 9}$ (5)

1.2 Given $y = \sqrt{\frac{3x^2 - 12x + 12}{x^2}}$

1.2.1 $\frac{dy}{dx}$ (5)

1.2.2 Next, show that for y , areal numbers then are $x \in \mathbb{R}$ even numbers. (2)

1.3 Consider binary numbers $X = 100000_2$ and $Y = 111_2$

1.3.1 Write X and Y in decimal form. (2)

1.3.2 Next, determine $(X - Y)$ in binary form. (2)

[24]

QUESTION 2

2.1 Solve for $x \in \mathbb{R}$, WITHOUT using a calculator

2.1.1 $\frac{1}{x^2} = 4$ (4)

2.1.2 $\frac{1}{x^2} = 4$ (5)

2.1.3 $\log_2 8 = -1$ (3)

2.1.4 $\frac{1}{x^2} = 4$ (7)

2.2 Show that:

$5 \cdot 2^{2x-3} + 2^{2x-3} = \frac{1}{2^{2x-3}}$ (5)

Mathematics Paper 1 June 2013 Memorandum

**Deguang Han, David R. Larson, Bei
Liu, Rui Liu**



Mathematics Paper 1 June 2013 Memorandum:

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 eqref one thus addressing an open question of Vázquez and Vron *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 **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 **Proof of the 1-Factorization and Hamilton Decomposition Conjectures** Béla Csaba, Daniela Kühn, Allan Lo, Deryk Osthus, Andrew Treglown, 2016-10-05 In this paper the authors prove the following results via a unified approach for all sufficiently large n i 1 factorization conjecture Suppose that n is even and $D \geq \frac{n}{4} + 1$ Then every D regular graph G on n vertices has a decomposition into perfect matchings Equivalently G D ii Hamilton decomposition conjecture Suppose that $D \geq \frac{n}{2}$ Then every D regular graph G on n vertices has a decomposition into Hamilton cycles and at most one perfect matching iii

Optimal packings of Hamilton cycles Suppose that G is a graph on n vertices with minimum degree $n/2$ Then G contains at least $\lfloor n/2 \rfloor$ edge disjoint Hamilton cycles Here $\lfloor n/2 \rfloor$ denotes the degree of the largest even regular spanning subgraph one can guarantee in a graph on n vertices with minimum degree i was first explicitly stated by Chetwynd and Hilton ii and the special case $n/2$ of iii answer questions of Nash Williams from 1970 All of the above bounds are best possible

Operator-Valued Measures, Dilations, and the Theory of Frames Deguang Han, David R. Larson, Bei Liu, Rui Liu, 2014-04-07 The authors develop elements of a general dilation theory for operator valued measures Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian In the non cb case the dilation space often needs to be a Banach space They give applications to both the discrete and the continuous frame theory There are natural associations between the theory of frames including continuous frames and framings the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal i.e ultraweakly or weakly or w continuous

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

Federal Register , 2013-06 How to Find Out in Chemistry C. R. Burman, 2013-10-22 How to

Find Out in Chemistry A Guide to Sources of Information Second Edition focuses on the best possible use of the literature of chemistry This book discusses some of the branches in chemistry such as general and physical chemistry analytical chemistry organic and inorganic chemistry and chemical technology This text also serves as a guide for outlining the careers available to qualified chemists and explaining how such qualifications can be obtained assembling a library of chemistry books describing some of the general guides to books biographies and theses acquiring periodical publications and abstracting journals This edition is intended for students and individuals conducting research on the implications of chemistry *The Origins of Digital Computers* B. Randell, 2013-12-21 **Outsider Scientists** Oren Harman, Michael R. Dietrich, 2013-12-11 Outsider Scientists describes the transformative role played by outsiders in the growth of the modern life sciences Biology which occupies a special place between the exact and human sciences has historically attracted many thinkers whose primary training was in other fields mathematics physics chemistry linguistics philosophy history anthropology engineering and even literature These outsiders brought with them ideas and tools that were foreign to biology but which when applied to biological problems helped to bring about dramatic and often surprising breakthroughs This volume brings together eighteen thought provoking biographical essays of some of the most remarkable outsiders of the modern era each written by an authority in the respective field From Noam Chomsky using linguistics to answer questions about brain architecture to Erwin Schrödinger contemplating DNA as a physicist would to Drew Endy tinkering with Biobricks to create new forms of synthetic life the outsiders featured here make clear just how much there is to gain from disrespecting conventional boundaries Innovation it turns out often relies on importing new ideas from other fields Without its outsiders modern biology would hardly be recognizable

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Table of Contents Mathematics Paper 1 June 2013 Memorandum

1. Understanding the eBook Mathematics Paper 1 June 2013 Memorandum
 - The Rise of Digital Reading Mathematics Paper 1 June 2013 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 1 June 2013 Memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Paper 1 June 2013 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 1 June 2013 Memorandum
 - Personalized Recommendations
 - Mathematics Paper 1 June 2013 Memorandum User Reviews and Ratings
 - Mathematics Paper 1 June 2013 Memorandum and Bestseller Lists
5. Accessing Mathematics Paper 1 June 2013 Memorandum Free and Paid eBooks
 - Mathematics Paper 1 June 2013 Memorandum Public Domain eBooks
 - Mathematics Paper 1 June 2013 Memorandum eBook Subscription Services
 - Mathematics Paper 1 June 2013 Memorandum Budget-Friendly Options

6. Navigating Mathematics Paper 1 June 2013 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Paper 1 June 2013 Memorandum Compatibility with Devices
 - Mathematics Paper 1 June 2013 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Paper 1 June 2013 Memorandum
 - Highlighting and Note-Taking Mathematics Paper 1 June 2013 Memorandum
 - Interactive Elements Mathematics Paper 1 June 2013 Memorandum
8. Staying Engaged with Mathematics Paper 1 June 2013 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper 1 June 2013 Memorandum
9. Balancing eBooks and Physical Books Mathematics Paper 1 June 2013 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper 1 June 2013 Memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 1 June 2013 Memorandum
 - Setting Reading Goals Mathematics Paper 1 June 2013 Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 1 June 2013 Memorandum
 - Fact-Checking eBook Content of Mathematics Paper 1 June 2013 Memorandum
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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smog check inspector and or smog check repair technician license - Sep 09 2022

class of license select the license s for which you are applying smog check inspector eo may inspect and certify the emissions control systems on vehicles subject to the smog check program at a licensed smog check test only or test and repair station

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oct 16 2023 california smog automotive institute 3001 chicago ave riverside ca 92507 united states google map phone 9517810412 view venue website bar update repair technicians smog inspector level 2 class schedule october 16 2023 to december 13 2023 6 00 pm to 10 00 pm monday tuesday wednesday thursday this

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tsi before starting the asm 50 15 test on a automatic transmission vehicle what is the correct gear that the inspector should select default drive during a smog inspection you notice that the coolant radiator has a hole on it how should the inspector proceed with the smog test do not continue with the test