



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.

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

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

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

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

$$1.2 \quad \text{Given } y = \frac{\sqrt{3x^2 - 12x + 12}}{x^2 - 4}$$

$$1.2.1 \quad \frac{d}{dx} \left(\frac{\sqrt{3x^2 - 12x + 12}}{x^2 - 4} \right) \quad (5)$$

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

$$2.1.1 \quad \frac{x^2 - 4}{x^2 - 9} = \frac{x^2 - 1}{x^2 - 4} \quad (4)$$

$$2.1.2 \quad \frac{x^2 - 4}{x^2 - 9} = \frac{x^2 - 1}{x^2 - 4} \quad (5)$$

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

$$2.1.4 \quad \frac{1}{x^2 - 4} = \frac{1}{x^2 - 9} \quad (7)$$

2.2 Show that:

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

Mathematics Paper 1 June 2013 Memorandum

VM Jensen



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A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials Florica C. Cîrstea, 2014-01-08 In particular for $b \neq 0$ we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of $\Delta u = h(x)|\nabla u|^2$ thus addressing an open question of Vazquez 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 has a 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

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