

GRADE 12 MATHEMATICS NOVEMBER EXAMINATION PAPER 1

QUESTION 1

1.1 Solve for a

1.1.1
$$x^2 - 9x + 20 = 0$$
 (3)

1.12
$$x(x+3)-1=0$$
 (correct to 2 decimal points) (3)

1.13
$$x^2 + 7x < 0$$
 (3)

1.2 Solve simultaneously for a and y if.

$$2x - y = 8$$
, and
 $x^2 - xy + y^2 = 29$

[34]

QUESTION 2

Million.

2.1 The terms p: (2p + 2): (5p + 3) form an arithmetic sequence.

Determine:

- 2.1.1 The value of p.
- 2.1.2 The rule in the form of $a_n = a + (n-1)d$.
- 2.1.3 The 15th term of the sequence.
- 2.2 z. y. 81 is a peometric sequence. And y = 2x - 5

All terms in the sequences are integers.

Calculate the values of x and y.

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QUESTION 3

Given the sequence 2. 6: 10: 14:

- 3.1 What type of sequence is this? Justify your answer by calculation.
- 3.2 Calculate T.,
- 3.3 Which term has a value of 322?
- 3.4 Determine by palculation if 1294 is a term in the sequence? PGB.

QUESTION 4

The sketch below shows the graph of $f(x) = \frac{-1}{x-x} + q$. The asymptotes of f intersects at B(-1,y). The Point $D\left(S;4\frac{y}{z}\right)$ is a point on the graph.



- 4.1 Determine the value of p. 170
- 42 Proof that a = 5.
- 4.3 Calculate the x-intercept of f.
 - Determine the equation of the vertical asymptote of $h \notin h(x) \equiv f(x+4)$.
- 4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry sais.
- 4.6 Give the values x for f(x) ≥ 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.

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Christian G. Meyer

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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 **Human Rights and America's War on Terror** Satvinder S. Juss, 2018-10-25 This volume examines the success of the 9 11 attacks in undermining the cherished principles of Western democracy free speech and tolerance which were central to US values It is argued that this has led to the USA fighting disastrous wars in Afghanistan and Iraq and to sanctioning the use of torture and imprisonment without trial in Guant namo Bay extraordinary rendition surveillance and drone attacks At home it has resulted in restrictions of civil liberties and the growth of an ill affordable military and security apparatus In this collection the authors note the irony that the shocking destruction of the World Trade Center on 9 11 should become the justification for the relentless expansion of security agencies Yet this is a salutary illustration of how the security agencies in the USA have adopted faulty preconceptions which have become too embedded within the institution to be abandoned without loss of credibility and prestige The book presents a timely assessment of both the human rights costs of the war on terror and the methods used to wage and relentlessly continue that war It will be of interest to researchers academics practitioners and students in the fields of human rights law criminal justice criminology politics and international studies The Education Invasion Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue

and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation's schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies Engineering Optimization R. Russell Rhinehart, 2018-05-29 An Application Oriented Introduction to Essential Optimization Concepts and Best Practices Optimization is an inherent human tendency that gained new life after the advent of calculus now as the world grows increasingly reliant on complex systems optimization has become both more important and more challenging than ever before Engineering Optimization provides a practically focused introduction to modern engineering optimization best practices covering fundamental analytical and numerical techniques throughout each stage of the optimization process Although essential algorithms are explained in detail the focus lies more in the human function how to create an appropriate objective function choose decision variables identify and incorporate constraints define convergence and other critical issues that define the success or failure of an optimization project Examples exercises and homework throughout reinforce the author's do not study approach to learning underscoring the application oriented discussion that provides a deep generic understanding of the optimization process that can be applied to any field Providing excellent reference for students or professionals Engineering Optimization Describes and develops a variety of algorithms including gradient based such as Newton's and Levenberg Marguardt direct search such as Hooke Jeeves Leapfrogging and Particle Swarm along with surrogate functions for surface characterization Provides guidance on optimizer choice by application and explains how to determine appropriate optimizer parameter values Details current best practices for critical stages of specifying an optimization procedure including decision variables defining constraints and relationship modeling Provides access to software and Visual Basic macros for Excel on the companion website along with solutions to examples presented in the book Clear explanations explicit equation derivations and practical examples make this book ideal for use as part of a class or self study assuming a basic understanding of statistics calculus computer programming and engineering models Anyone seeking best practices for making the best choices will find value in this introductory resource **Operations Research** (unclassified Title) Defense Documentation Center (U.S.),1962 Failure Up Close Jay P. Greene, Michael Q. McShane, 2018-01-17 For many reasons failure in education reform is rarely admitted Even though it is incredibly hard work to try and improve the enormous and diverse American education system because there are political consequences of

admitting that a particular effort did not live up to its promises and pressure from philanthropic funders to show success unsuccessful efforts are often swept under the rug or papered over with public relations efforts that avoid wrestling with the tough realities of educational improvement This doesn't help anyone As any educator will tell you failure is an essential part of learning Insofar as education reform needs to be a learning movement itself it has to be able to admit where it has failed and learn from it Failure Up Close engages a select group of scholars from across the ideological spectrum to examine particular education reform efforts of recent years that have not succeeded and offer lessons for school and system improvement that can be learned from them Rather than view failure as negative this volume looks at failure as an opportunity to learn and grow In fact the editors endeavored to find authors that would analyze reforms for which they had some fundamental sympathy The goal is not to bash particular efforts or castigate their supporters but rather to help those supporters understand how to do what they do better and ultimately do better for children On Sudakov's Type **Decomposition of Transference Plans with Norm Costs** Stefano Bianchini, Sara Daneri, 2018-02-23 The authors consider the original strategy proposed by Sudakov for solving the Monge transportation problem with norm cost with probability measures in and absolutely continuous wrt The key idea in this approach is to decompose via disintegration of measures the Kantorovich optimal transportation problem into a family of transportation problems in where are disjoint regions such that the construction of an optimal map is simpler than in the original problem and then to obtain by piecing together the maps When the norm is strictly convex the sets are a family of dimensional segments determined by the Kantorovich potential called optimal rays while the existence of the map is straightforward provided one can show that the disintegration of and thus of on such segments is absolutely continuous wrt the dimensional Hausdorff measure When the norm is not strictly convex the main problems in this kind of approach are two first to identify a suitable family of regions on which the transport problem decomposes into simpler ones and then to prove the existence of optimal maps In this paper the authors show how these difficulties can be overcome and that the original idea of Sudakov can be successfully implemented. The results yield a complete characterization of the Kantorovich optimal transportation problem whose straightforward corollary is the solution of the Monge problem in each set and then in The strategy is sufficiently powerful to be applied to other optimal transportation problems A Vector Field Method on the Distorted Fourier Side and Decay for Wave Equations with Potentials Roland Donninger, Joachim Krieger, 2016-04-26 The authors study the Cauchy problem for the one dimensional wave equation 2tu t x 2xu t x V x u t x 0 The potential V is assumed to be smooth with asymptotic behavior V x 14 x 2 as x They derive dispersive estimates energy estimates and estimates involving the scaling vector field t t x x where the latter are obtained by employing a vector field method on the distorted Fourier side In addition they prove local energy decay estimates Their results have immediate applications in the context of geometric evolution problems The theory developed in this paper is fundamental for the proof of the co-dimension 1 stability of the catenoid under the vanishing mean

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