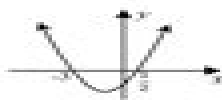


NOTE/LET WEL:

- If a candidate answers a question TWICE, mark the FIRST attempt ONLY.
Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk SLEGS die EERSTE poging.
- Consistent accuracy applies in ALL aspects of the marking guideline.
Volgehoue akkuraatheid geld deurgaans in ALLE aspekte van die nasienriglyn.
- If a candidate crossed out an attempt of a question and did not redo the question, mark the crossed-out attempt.
Indien 'n kandidaat 'n poging vir 'n vraag deurgetrek het en nie die vraag weer beantwoord het nie, merk die poging wat deurgetrek is.
- The mark for substitution is awarded for substitution into the correct formula.
- Die punt vir substitusie word toegeken vir substitusie in die korrekte formule.

QUESTION 1/VRAAG 1

1.1.1	$x^2 + 4x - 21 = 0$ $(x - 3)(x + 7) = 0$ $\therefore x = 3 \quad \text{or / of} \quad x = -7$ OR/OF $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-4 \pm \sqrt{4^2 - 4(1)(-21)}}{2(1)}$ $= \frac{-4 \pm \sqrt{100}}{2}$ $= 3 \quad \text{or / of} \quad -7$	✓ factors / faktore ✓ both x-values / beide x-waardes (2) OR/OF ✓ substitution / vervanging ✓ both x-values / beide x-waardes (2)
1.1.2	$x(2x - 7) = 3$ $2x^2 - 7x - 3 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(-7) \pm \sqrt{(-7)^2 - 4(2)(-3)}}{2(2)}$ $= \frac{7 \pm \sqrt{73}}{4}$ $= 3,89 \quad \text{or / of} \quad -0,39$	✓ standard form / standaardvorm ✓ substitution / vervanging ✓ $x = 3,89$ OR/OF ✓ $x = -0,39$ (4)
1.1.3	$(2x + 3)(x + 1) < 6$ $2x^2 + 5x + 3 < 6$ $2x^2 + 5x - 3 < 0$ $(2x - 1)(x + 3) < 0$ $\therefore -3 < x < \frac{1}{2}$	 ✓ standard form / standaardvorm ✓ factors / faktore ✓✓ $-3 < x < \frac{1}{2}$ (Accuracy/Akkuraatheid) (4)

Maths P1 Jun 2015 Memo

Ian Pickup

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Analysis of the Hodge Laplacian on the Heisenberg Group Detlef Muller, Marco M. Peloso, Fulvio Ricci, 2014-12-20 The authors consider the Hodge Laplacian Δ on the Heisenberg group H_n endowed with a left invariant and U_n invariant Riemannian metric For $0 \leq k \leq 2n-1$ let Δ_k denote the Hodge Laplacian restricted to k forms In this paper they address three main related questions 1 whether the L^2 and L^p Hodge decompositions 1 *A Geometric Theory for Hypergraph Matching* Peter Keevash, Richard Mycroft, 2014-12-20 The authors develop a theory for the existence of perfect matchings in hypergraphs under quite general conditions Informally speaking the obstructions to perfect matchings are geometric and are of two distinct types space barriers from convex geometry and divisibility barriers from arithmetic lattice based constructions To formulate precise results they introduce the setting of simplicial complexes with minimum degree sequences which is a generalisation of the usual minimum degree condition They determine the essentially best possible minimum degree sequence for finding an almost perfect matching Furthermore their main result establishes the stability property under the same degree assumption if there is no perfect matching then there must be a space or divisibility barrier This allows the use of the stability method in proving exact results Besides recovering previous results the authors apply our theory to the solution of two open problems on hypergraph packings the minimum degree threshold for packing tetrahedra in graphs and Fischer's conjecture on a multipartite form of the Hajnal Szemerédi Theorem Here they prove the exact result for tetrahedra and the asymptotic result for Fischer's conjecture since the exact result for the latter is technical they defer it to a subsequent paper *Antenna Theory* Constantine A. Balanis, 2016-02-01 Updated with color and gray scale illustrations a companion website housing supplementary material and new sections covering recent developments in antenna analysis and design This book introduces the fundamental principles of antenna theory and explains how to apply them to the analysis design and measurements of antennas Due to the variety of methods of analysis and design and the different antenna structures available the applications covered in this book are made to some of the most basic and practical antenna configurations Among these antenna configurations are linear dipoles loops arrays broadband antennas aperture antennas horns microstrip antennas and reflector antennas The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design Readers should have a basic knowledge of undergraduate electromagnetic theory including Maxwell's equations and the wave equation introductory physics and differential and integral calculus Presents new sections on flexible and conformal bowtie Vivaldi antenna antenna miniaturization antennas for mobile communications dielectric resonator antennas and scale modeling Provides color and gray scale figures and illustrations to better depict antenna radiation characteristics Includes access to a companion website housing MATLAB programs Java based applets and animations Power Point notes Java based interactive questionnaires and a solutions manual for instructors Introduces over 100 additional end of chapter problems

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Local Entropy Theory of a Random Dynamical System Anthony H. Dooley, Guohua Zhang, 2014-12-20 In this paper the authors extend the notion of a continuous bundle random dynamical system to the setting where the action of R or N is replaced by the action of an infinite countable discrete amenable group Given such a system and a monotone sub additive invariant family of random continuous functions they introduce the concept of local fiber topological pressure and establish an associated variational principle relating it to measure theoretic entropy They also discuss some variants of this variational principle The authors introduce both topological and measure theoretic entropy tuples for continuous bundle random dynamical systems and apply variational principles to obtain a relationship between these of entropy tuples Finally they give applications of these results to general topological dynamical systems recovering and extending many recent results in local entropy theory

Self-Affine Scaling Sets in \mathbb{R}^2 Xiaoye Fu, Jean-Pierre Gabardo, 2014-12-20 There exist results on the connection between the theory of wavelets and the theory of integral self affine tiles and in particular on the construction of wavelet bases using integral self affine tiles However there are many non integral self affine tiles which can also yield wavelet basis In this work the author gives a complete characterization of all one and two dimensional dilation scaling sets such that is a self affine tile satisfying for some R where is a integral expansive matrix with and

Dilations, Linear Matrix Inequalities, the Matrix Cube Problem and Beta Distributions J. William Helton, Igor Klep, Scott McCullough, Markus Schweighofer, 2019-02-21 An operator C on a Hilbert space H dilates to an operator T on a Hilbert space K if there is an isometry $V: H \rightarrow K$ such that $C = V^*TV$ A main result of this paper is for a positive integer d the simultaneous dilation up to a sharp factor d expressed as a ratio of functions for d even of all $d \times d$ symmetric matrices of operator norm at most one to a collection of commuting self adjoint contraction operators on a Hilbert space

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A_2 and B_2 Chern-Simons System Weiwei Ao, Chang-Shou Lin, Juncheng Wei, 2016-01-25 Click here to view the abstract Introduction Proof of Theorem 1.1 in the case Proof of Theorem 1.1 in the case Appendix Bibliography Stability of

KAM Tori for Nonlinear Schrödinger Equation Hongzi Cong, Jianjun Liu, Xiaoping Yuan, 2016-01-25 The authors prove the long time stability of KAM tori thus quasi periodic solutions for nonlinear Schrödinger equation subject to Dirichlet boundary conditions where α is a real Fourier multiplier More precisely they show that for a typical Fourier multiplier any solution with the initial datum in the neighborhood of a KAM torus still stays in the neighborhood of the KAM torus for a polynomial long time such as for any given ϵ with where C is a constant depending on ϵ and α

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