NOTE/*LET WEL*:
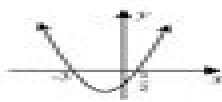
- If a candidate answers a question TWICE, mark the FIRST attempt ONLY.
  Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk SLEGS die EERSTE poging.
- Consistent accuracy applies in ALL aspects of the marking guideline.
  Volgehoue akkuraatheid geld deurgaans in ALLE aspekte van die nasienriglyn.
- 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	$x^2 + 4x - 21 = 0$ $(x - 3)(x + 7) = 0$ $\therefore x = 3 \qquad$ or / *of* $\qquad x = -7$ **OR/*OF*** $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \dfrac{-4 \pm \sqrt{4^2 - 4(1)(-21)}}{2(1)}$ $= \dfrac{-4 \pm \sqrt{100}}{2}$ $= 3$ or / *of* -7	✓ factors / *faktore* ✓ both x-values / *beide x-waardes* (2) **OR/*OF*** ✓ substitution / *vervanging* ✓ both x-values / *beide x-waardes* (2)
1.1.2	$x(2x - 7) = 3$ $2x^2 - 7x - 3 = 0$ $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \dfrac{-(-7) \pm \sqrt{(-7)^2 - 4(2)(-3)}}{2(2)}$ $= \dfrac{7 \pm \sqrt{73}}{4}$ $= 3,89$ or / *of* $-0,39$	✓ 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)

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Marcelo Aguiar,Federico Ardila

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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 **22 Topic-wise CTET Paper 1 Previous Year Solved Papers (2024 - 2011) Class 1 - 5 Teachers | Child Development & Pedagogy, English, Hindi, EVS & Mathematics** Disha Experts,2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 1 Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III EVS has 13 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam

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 Delta on the Heisenberg group H_n endowed with a left invariant and U n invariant Riemannian metric For 0 le k le 2n 1 let Delta_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 **Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model** Raphaël Cerf,2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen s model which incorporates stochastic effects The author considers a Moran model describing the evolution of a population of size of chromosomes of length over an alphabet of cardinality The mutation probability per locus is He deals only with the sharp peak landscape the replication rate is for the master sequence and for the other sequences He studies the equilibrium distribution of the process in the regime where <u>Sheaves on Graphs, Their Homological Invariants, and a Proof of the Hanna Neumann Conjecture</u> Joel Friedman,2014-12-20 In this paper the author establishes some foundations regarding sheaves of vector spaces on graphs and their invariants such as homology groups and their limits He then uses these ideas to prove the Hanna Neumann Conjecture of the 1950s in fact he proves a strengthened form of the conjecture **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 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 d symmetric matrices of operator norm at most one to a collection of commuting self adjoint contraction operators on a

Hilbert space   *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 Szemer di 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   **Hopf Monoids and Generalized Permutahedra** Marcelo Aguiar,Federico Ardila,2023-09-27 View the abstract   **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   **Comparison of Relatively Unipotent Log de Rham Fundamental Groups** Bruno Chiarellotto,Valentina Di Proietto,Atsushi Shiho,2023-09-15 View the abstract   **International Abstracts in Operations Research** ,1963

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