

QUESTION 1

1.1 Solve for x :

$$1.1.1 \quad x^2 - 9 = 0 \quad (2)$$

$$1.1.2 \quad x - 5 + \frac{2}{x} = 0 \quad (\text{correct to TWO decimal places}) \quad (4)$$

$$1.1.3 \quad x = 1 + \sqrt{7 - x} \quad (5)$$

$$1.1.4 \quad x^2 + 2x - 15 \geq 0 \quad (3)$$

1.2 Solve simultaneously for x and y in:

$$y + 2x = 3$$

$$y^2 - y = 3x^2 - 5x \quad (6)$$

1.3 Simplify completely, WITHOUT the use of a calculator: $\sqrt[n]{\frac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$ (4)

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Lei Huang



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Character Identities in the Twisted Endoscopy of Real Reductive Groups Paul

Mezo,2013-02-26 Suppose G is a real reductive algebraic group θ is an automorphism of G and ω is a quasicharacter of the group of real points $G(\mathbb{R})$ Under some additional assumptions the theory of twisted endoscopy associates to this triple real reductive groups H The Local Langlands Correspondence partitions the admissible representations of $H(\mathbb{R})$ and $G(\mathbb{R})$ into L packets The author proves twisted character identities between L packets of $H(\mathbb{R})$ and $G(\mathbb{R})$ comprised of essential discrete series or limits of discrete series

The Shape of Congruence Lattices Keith

Kearnes,Emil W. Kiss,2013-02-26 This monograph is concerned with the relationships between Maltsev conditions commutator theories and the shapes of congruence lattices in varieties of algebras The authors develop the theories of the strong commutator the rectangular commutator the strong rectangular commutator as well as a solvability theory for the nonmodular TC commutator They prove that a residually small variety that satisfies a congruence identity is congruence modular

Pseudo-Differential Operators with Discontinuous Symbols: Widom's Conjecture Aleksandr

Vladimirovich Sobolev,2013-02-26 Relying on the known two term quasiclassical asymptotic formula for the trace of the function $f(A)$ of a Wiener Hopf type operator A in dimension one in 1982 H Widom conjectured a multi dimensional generalization of that formula for a pseudo differential operator A with a symbol $a(x, \xi)$ having jump discontinuities in both variables In 1990 he proved the conjecture for the special case when the jump in any of the two variables occurs on a hyperplane The present paper provides a proof of Widom's Conjecture under the assumption that the symbol has jumps in both variables on arbitrary smooth bounded surfaces

A Study of Singularities on Rational Curves Via Syzygies David A. Cox,Andrew R. Kustin,Claudia Polini,Bernd Ulrich,2013-02-26 Consider a rational projective

curve C of degree d over an algebraically closed field k There are n homogeneous forms $g_1 \dots g_n$ of degree d in $k[x, y]$ which parameterize C in a birational base point free manner The authors study the singularities of C by studying a Hilbert Burch matrix φ for the row vector $g_1 \dots g_n$ In the General Lemma the authors use the generalized row ideals of φ to identify the singular points on C their multiplicities the number of branches at each singular point and the multiplicity of each branch Let p be a singular point on the parameterized planar curve C which corresponds to a generalized zero of φ In the triple Lemma the authors give a matrix φ whose maximal minors parameterize the closure in $\mathbb{P}^2$ of the blow up at p of C in a neighborhood of p The authors apply the General Lemma to φ in order to learn about the singularities of C in the first neighborhood of p If C has even degree $d \geq 2c$ and the multiplicity of C at p is equal to c then he applies the

Triple Lemma again to learn about the singularities of C in the second neighborhood of p Consider rational plane curves C of even degree $d \geq 2c$ The authors classify curves according to the configuration of multiplicity c singularities on or infinitely near C There are 7 possible configurations of such singularities They classify the Hilbert Burch matrix which corresponds to each configuration The study of multiplicity c singularities on or infinitely near a fixed rational plane curve C of degree $2c$ is equivalent to the study of the scheme of generalized zeros of the fixed balanced Hilbert Burch matrix φ for a parameterization of C **On the Spectra of Quantum Groups** Milen

Yakimov,2014-04-07 Joseph and Hodges Levasseur in the A case described the spectra of all quantum function algebras on simple algebraic groups in terms of the centers of certain localizations of quotients of by torus invariant prime ideals or equivalently in terms of orbits of finite groups These centers were only known up to finite extensions The author determines the centers explicitly under the general conditions that the deformation parameter is not a root of unity and without any restriction on the characteristic of the ground field From it he deduces a more explicit description of all prime ideals of than the previously known ones and an explicit parametrization of **Polynomial Approximation on Polytopes** Vilmos

Totik,2014-09-29 Polynomial approximation on convex polytopes in is considered in uniform and norms For an appropriate modulus of smoothness matching direct and converse estimates are proven In the case so called strong direct and converse results are also verified The equivalence of the moduli of smoothness with an appropriate functional follows as a consequence The results solve a problem that was left open since the mid 1980s when some of the present findings were established for special so called simple polytopes **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 **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 **Semiclassical Standing Waves with Clustering Peaks for Nonlinear Schrodinger Equations** Jaeyoung Byeon, Kazunaga Tanaka,2014-04-07

The authors study the following singularly perturbed problem in Their main result is the existence of a family of solutions with peaks that cluster near a local maximum of A local variational and deformation argument in an infinite dimensional space is developed to establish the existence of such a family for a general class of nonlinearities **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 *Sheaves on Graphs, Their Homological Invariants, and a Proof of the Hanna Neumann Conjecture* 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 **Cohomology for Quantum Groups via the Geometry of the Nullcone** Christopher P. Bendel,Daniel K. Nakano, Brian J. Parshar,Cornelius Pillen,2014-04-07 In general little is known about the representation theory of quantum groups resp algebraic groups when l resp p is smaller than the Coxeter number h of the underlying root system For example Lusztig's conjecture concerning the characters of the rational irreducible G modules stipulates that $p \geq h$ The main result in this paper provides a surprisingly uniform answer for the cohomology algebra $H^*(U/C)$ of the small quantum group *Subject Index of Modern Books Acquired 1881/1900-*. British Museum. Department of Printed Books,1927 Resources in Education ,1993 Readings in Artificial Intelligence Bonnie Lynn Webber,Nils J. Nilsson,2014-05-12 Readings in Artificial Intelligence focuses on the principles methodologies advancements and approaches involved in artificial intelligence The selection first elaborates on representations of problems of reasoning about actions a problem similarity approach to devising heuristics and optimal search strategies for speech understanding control Discussions focus on comparison with existing speech understanding systems empirical comparisons of the different strategies analysis of distance function approximation problem similarity problems of reasoning about action search for solution in the reduction system and relationship between the initial search space and the higher level search space The book then examines consistency in networks of relations non resolution theorem proving using rewriting rules for connection graphs to prove theorems and closed world data bases The manuscript tackles a truth maintenance system elements of a plan based theory of speech acts and reasoning about knowledge and action Topics include problems in reasoning about knowledge integration knowledge and action models of plans compositional adequacy truth maintenance mechanisms dialectical arguments and assumptions and the problem of control The selection is a valuable reference for researchers wanting to explore the field of artificial intelligence The Schoolmasters' Yearbook & Educational Directory ,1922

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