

Quartic Equation

A quartic equation is a fourth-order polynomial equation of the form

$$z^4 + a_3 z^3 + a_2 z^2 + a_1 z + a_0 = 0. \quad (1)$$

While some authors (Beyer 1987b, p. 34) use the term "biquadratic equation" as a synonym for quartic equation, others (Hazewinkel 1988, Gellert et al. 1989) reserve the term for a quartic equation having no cubic term, i.e., a quadratic equation in x^2 .

Ferrari was the first to develop an algebraic technique for solving the general quartic, which was stolen and published in Cardano's *Ars Magna* in 1545 (Boyer and Merzbach 1991, p. 283). The Wolfram Language can solve quartic equations exactly using the built-in command `Solve[a4 x^4 + a3 x^3 + a2 x^2 + a1 x + a0 == 0, x]`. The solution can also be expressed in terms of Wolfram Language algebraic root objects by first issuing `SetOptions[Roots, Quartics -> False]`.

The roots of this equation satisfy Vieta's formulas:

Beyond The Quartic Equation

Nathan Fellowes Dupuis



Beyond The Quartic Equation:

Beyond the Quartic Equation R. Bruce King, 2009-01-16 One of the landmarks in the history of mathematics is the proof of the nonexistence of algorithms based solely on radicals and elementary arithmetic operations addition subtraction multiplication and division for solutions of general algebraic equations of degrees higher than four This proof by the French mathematician Evariste Galois in the early nineteenth century used the then novel concept of the permutation symmetry of the roots of algebraic equations and led to the invention of group theory an area of mathematics now nearly two centuries old that has had extensive applications in the physical sciences in recent decades The radical based algorithms for solutions of general algebraic equations of degrees 2 quadratic equations 3 cubic equations and 4 quartic equations have been well known for a number of centuries The quadratic equation algorithm uses a single square root the cubic equation algorithm uses a square root inside a cube root and the quartic equation algorithm combines the cubic and quadratic equation algorithms with no new features The details of the formulas for these equations of degree d $d = 2, 3, 4$ relate to the properties of the corresponding symmetric groups S_d which are isomorphic to the symmetries of the equilateral triangle for $d = 3$ and the regular tetrahedron for $d = 4$

Beyond the Quartic Equation R. Bruce King, 2008-11-01 The objective of this book is to present for the first time the complete algorithm for roots of the general quintic equation with enough background information to make the key ideas accessible to non specialists and even to mathematically oriented readers who are not professional mathematicians The book includes an initial introductory chapter on group theory and symmetry Galois theory and Tschirnhausen transformations and some elementary properties of elliptic function in order to make some of the key ideas more accessible to less sophisticated readers The book also includes a discussion of the much simpler algorithms for roots of the general quadratic cubic and quartic equations before discussing the algorithm for the roots of the general quintic equation A brief discussion of algorithms for roots of general equations of degrees higher than five is also included If you want something truly unusual try this book by R Bruce King which revives some fascinating long lost ideas relating elliptic functions to polynomial equations New Scientist

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elliptic functions to polynomial equations *New Scientist* **BEYOND THE QUADRATIC FORMULA** RON IRVING.,2020

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Mathematica - revue d'analyse numérique et de théorie de l'approximation ,1997 *Choice* ,1997 An Elementary Treatise on Cubic and Quartic Curves Alfred Barnard Basset,1901 Matematics for Electronics Forrest I. Baker, Gershon J. Wheeler,1968 *Mathematics* David Bergamini,1963 *Abstracts of Papers Presented in Symposia* ,1985 **Beyond the Desert 1997** Hans Volker Klapdor-Kleingrothaus,Heinrich Päs,1998 This book contains the Proceedings of the First International Conference Beyond the Desert on Particle Physics beyond the Standard Model held in June 1997 The conference brought together leading researchers from particle physics and astrophysics to present recent developments and future perspectives both experimental and theoretical in this topical field The complementary approaches of accelerator and non accelerator research were given equal emphasis The invited review papers provide a good overview of the field and the contributed papers give the latest results and point the way forward with possible future experiments

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