

# 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

**LP Steffe**



## **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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Beyond the Quadratic Formula Ron Irving,2020-01-29 The quadratic formula for the solution of quadratic equations was discovered independently by scholars in many ancient cultures and is familiar to everyone Less well known are formulas for solutions of cubic and quartic equations whose discovery was the high point of 16th century mathematics Their study forms the heart of this book as part of the broader theme that a polynomial's coefficients can be used to obtain detailed information on its roots The book is designed for self study with many results presented as exercises and some supplemented by outlines for solution The intended audience includes in service and prospective secondary mathematics teachers high school students eager to go beyond the standard curriculum undergraduates who desire an in depth look at a topic they may have unwittingly skipped over and the mathematically curious who wish to do some work to unlock the mysteries of this beautiful subject  
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