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Beyond the Quartic Equation. 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.

Beyond the Quartic Equation | R. Bruce King | Springer

Beyond the Quartic Equation. 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 ($d = 2, 3, 4$)...

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Quintic function - Wikipedia

Beyond the Quartic Equation. 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.

Beyond the quartic equation (eBook, 2009) [WorldCat.org]

A quartic equation, or equation of the fourth degree, is an equation that equates a quartic polynomial to zero, of the form $ax^4 + bx^3 + cx^2 + dx + e = 0$, where $a \neq 0$. The derivative of a quartic function is a cubic function. Since a quartic function is defined by a polynomial ...

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Beyond the Quartic Equation PDF-ebook in english (with Adobe DRM) 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, ...

Beyond the Quartic Equation (Modern Birkhäuser Classics

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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.

Quartic function - Wikipedia

The quadratic formula for the solution of quadratic equations was discovered independently by scholars in many ancient

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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.

Part 5: The Theory of Equations from Cardano to Galois

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.

Beyond the quartic equation (Book, 1996) [WorldCat.org]

Beyond the quartic equation. [R Bruce King] -- 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 ...

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2 Beyond the Quartic Many mathematicians tried to find formulas for the roots of equations of degree greater than 4. Among mathematicians making a serious attempt, we find that by allowing other construction tools, we can construct the regular heptagon. For example we can do it with compass and marked straightedge, that is, a ruler with two marks on its ...

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Elliptic functions -- Elliptic functions by the generalization of radicals -- Elliptic functions as doubly periodic functions -- Theta functions -- Higher order theta functions -- 5. Algebraic equations soluble by radicals -- The quadratic and cubic equations -- The quartic equation -- Special quintic equations solvable by radicals -- 6.

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Quintic function. In other words, a quintic function is defined by a polynomial of degree five. If a is zero but one of the coefficients b , c , d , or e is non-zero, the function is classified as either a quartic function, cubic function, quadratic function or linear function .

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