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Beyond The Quartic 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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For completeness the final two chapters present the methods of Hermite and Gordan and the sextic and septic equations briefly. Mathematica has a nice implementation of the quintic solution and even has a poster that displays it. But Beyond the Quartic is a nice source for an explanation and clarification of Kiepert's 1878 work.

Beyond the Quartic Equation | Mathematical Association of ...

Beyond the Quartic Equation. January 2009; DOI: 10.1007/978-0-8176-4849-7. Authors: R. Bruce

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The Methods of Hermite and Gordan for Solving the General Quintic Equation.- Beyond the Quintic Equation. ... 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 ...

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Beyond the Quartic Equation. Beyond the Quartic Equation pp 1-11 | Cite as. Beyond the Quintic Equation. Authors; Authors and affiliations; R. Bruce King; Chapter. First Online: 10 October 2008. 536 Downloads; Part of the Modern Birkhäuser Classics book series (MBC) Keywords ...

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In mathematics, a quartic equation is one which can be expressed as a quartic function equalling zero. The general form of a quartic equation is The general form of a quartic equation is Graph of a polynomial function of degree 4, with its 4 roots and 3 critical points .

Quartic equation - Wikipedia

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The derivative of a quartic function is a cubic function . Sometimes the term biquadratic is used instead of quartic, but, usually, biquadratic function refers to a quadratic function of a square (or, equivalently, to the function defined by a quartic polynomial without terms of odd degree), having the form.

Quartic function - Wikipedia

Finding roots of a quintic equation. Finding the roots of a given polynomial has been a prominent mathematical problem. Solving linear, quadratic, cubic and quartic equations by factorization into radicals can always be done, no matter whether the roots are rational or irrational, real or complex; there are formulae that yield the required solutions. . However, there is no algebraic expression ...

Quintic function - Wikipedia

subtract $(1-!)$ times the second equation from the $(1-!2)$ times the first, we get $(1-!2)((1-!)b+(1-!2)c)-(1-!)((1-!2)b+(1-!)c) = (1-!2) 2c-(1-!) c = (-2!2+!+2!-!2)c = (-3!2+3!)c$ So, dividing this by $3!-3!2$ yields c . Then, plugging this into the above equations yields a and b . This gives a solution to the cubic equation. 3. THE QUARTIC EQUATION

SOLVING THE CUBIC AND QUARTIC - Stanford University

Beyond the Quartic Equation. 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 : R. Bruce King : 9780817648367

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The book also includes historical sections designed to reveal key discoveries in the study of polynomial equations as milestones in intellectual history across cultures. Beyond the Quadratic Formula is designed for self-study, with many results presented as exercises and some supplemented by outlines for solution.

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