

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

Wolfgang Guggemos



Beyond The Quartic Equation:

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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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Table of Contents Beyond The Quartic Equation

1. Understanding the eBook Beyond The Quartic Equation
 - The Rise of Digital Reading Beyond The Quartic Equation
 - Advantages of eBooks Over Traditional Books
2. Identifying Beyond The Quartic Equation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Beyond The Quartic Equation
 - Personalized Recommendations
 - Beyond The Quartic Equation User Reviews and Ratings

- Beyond The Quartic Equation and Bestseller Lists
- 5. Accessing Beyond The Quartic Equation Free and Paid eBooks
 - Beyond The Quartic Equation Public Domain eBooks
 - Beyond The Quartic Equation eBook Subscription Services
 - Beyond The Quartic Equation Budget-Friendly Options
- 6. Navigating Beyond The Quartic Equation eBook Formats
 - ePub, PDF, MOBI, and More
 - Beyond The Quartic Equation Compatibility with Devices
 - Beyond The Quartic Equation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Beyond The Quartic Equation
 - Highlighting and Note-Taking Beyond The Quartic Equation
 - Interactive Elements Beyond The Quartic Equation
- 8. Staying Engaged with Beyond The Quartic Equation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Beyond The Quartic Equation
- 9. Balancing eBooks and Physical Books Beyond The Quartic Equation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Beyond The Quartic Equation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Beyond The Quartic Equation
 - Setting Reading Goals Beyond The Quartic Equation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Beyond The Quartic Equation
 - Fact-Checking eBook Content of Beyond The Quartic Equation
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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