

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

Katrin Zwirgmaier



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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 Beyond The Quartic Equation
 - 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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