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

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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**

The derivative of a quartic function is a cubic function .



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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

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quintic equation.

Finding the roots of a given polynomial has been a prominent mathematical problem.

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. However, there is no

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## 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

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gives a solution to the cubic equation. 3. THE QUARTIC EQUATION

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the key ideas  
accessible to non-  
specialists and even to  
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**Equation - Metra  
Industries**

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



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outlines for solution.

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