

## Beyond The Quartic Equation

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(Polynomial of 4th degree)

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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.

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The full quartic can then be factorized this way:  $a_0 x^4 + a_1 x^3 + a_2 x^2 + a_3 x + a_4 = a_0 x^3 (x + k) + a_3 (x + k) = (a_0 x^3 + a_3) (x + k)$ .  $\{ /displaystyle a_{0}x^{4}+a_{0}kx^{3}+a_{3}x+a_{3}k=a_{0}x^{3}(x+k)+a_{3}(x+k)=(a_{0}x^{3}+a_{3})(x+k).$  If.  $a_1 = a_0 k$ .

Quartic equation - Wikipedia

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$ax^5 + bx^4 + cx^3 + dx^2 + ex + f = 0$ ,  $\{ /displaystyle ax^{5}+bx^{4}+cx^{3}+dx^{2}+ex+f=0,$  the Tschirnhaus transformation  $x = y - \frac{b}{5a}$ , which depresses the quintic (that is, removes the term of degree four), gives the equation.  $y^5 + p y^3 + q y^2 + r y + s = 0$ .

Quintic function - Wikipedia

Beyond the Quartic Equation. One of the landmarks in the history of mathematics is the proof of the nonexistence of algorithms based solely on radicals and elementary arithmetic

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