

Elementary Differential Equations

Rainville Solutions

P[edit] 0ab cd693b5 P-adic Hodge theory -- 0ab cd693b5 Chemistry 0ab cd693b5 P-adic valuation -- 0ab cd693b5 P (complexity) -- 0ab cd693b5 probability, such as the Edgeworth series, as well as in connection with Brownian motion; 0ab cd693b5 Calculus and Analysis 0ab cd693b5 x 0ab cd693b5 Probability 0ab cd693b5 Statistics and Decision theory 0ab cd693b5 u 0ab cd693b5 History 0ab cd693b5 P-adic modular form -- 0ab cd693b5 Geosciences 0ab cd693b5 P-adic analysis -- 0ab cd693b5 P-adic cohomology -- 0ab cd693b5 Algebra 0ab cd693b5 signal processing as Hermitian wavelets for wavelet transform analysis 0ab cd693b5 P-adic L-function -- 0ab cd693b5 physics, where they give rise to the eigenstates of the quantum harmonic oscillator; and they also occur in some cases of the heat equation (when the term 0ab cd693b5

Generalized hypergeometric function The generalized hypergeometric series is sometimes just called the hypergeometric series, though this term also sometimes just refers to the Gaussian hypergeometric series. Generalized hypergeometric functions include the (Gaussian) hypergeometric function and the confluent hypergeometric function as special cases, which in turn have many particular special functions as special cases, such as elementary functions, Bessel functions, and the classical orthogonal polynomials. The differential equation for this function is
$$z \frac{d}{dz} \left(z \frac{dw}{dz} \right) = w \left(\frac{d}{dz} \right) \{ dz \} w = w \},$$
 which has solutions $w = k e^z$. In mathematics, a generalized hypergeometric series is a power series in which the ratio of successive coefficients indexed by n is a rational function of n . The series, if convergent, defines a generalized hypergeometric function, which may then be defined over a wider domain of the argument by analytic continuation. $\{ \}_0 F_{\{ \} (; z) = e^z$ 0ab cd693b5

P-adic number -- 0ab cd693b5 combinatorics, as an example of an Appell sequence, obeying the umbral calculus; 0ab cd693b5 #P -- 0ab cd693b5 P-adic distribution -- 0ab cd693b5 numerical analysis as Gaussian quadrature; 0ab cd693b5 P-adic gamma function -- 0ab cd693b5 Areas 0ab cd693b5 Philosophy 0ab cd693b5 Linguistics 0ab cd693b5 The polynomials arise in: 0ab cd693b5

Hermite polynomials The general solutions to the above second-order differential equations are in fact linear combinations of both Hermite In mathematics, the Hermite polynomials are a classical orthogonal polynomial sequence. polynomially bounded at infinity 0ab cd693b5

Geometry 0ab cd693b5 P-adic Teichmüller theory -- 0ab cd693b5 Economics 0ab cd693b5 Part of a series onMathematics 0ab cd693b5 Physics 0ab cd693b5 Computation 0ab cd693b5 Discrete mathematics 0ab cd693b5 Since Abel's identity relates to the different linearly independent solutions of the differential equation, it can be used to find one solution from the other. It provides useful identities relating the solutions, and is also useful as a part of other techniques such as the method of variation of parameters. It is especially useful for equations... 0ab cd693b5 Relationship with sciences 0ab cd693b5 Number theory 0ab cd693b5 P-adic exponential function -- 0ab cd693b5 The relation can be generalised to n th-order linear ordinary differential equations. The identity is named after the Norwegian mathematician Niels Henrik Abel. 0ab cd693b5

Abel's identity called Abel's formula or Abel's differential equation identity) is an equation that expresses the Wronskian of two solutions of a homogeneous second-order In mathematics, Abel's identity (also called Abel's formula or Abel's differential equation identity) is an equation that expresses the Wronskian of two solutions of a homogeneous second-order linear ordinary differential equation in terms of a coefficient of the original differential equation 0ab cd693b5

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Wikipedia:WikiProject Mathematics/List of mathematics articles (P-R) (February 2009).
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