

Contiguous function relations for triple and other hypergeometric functions

R.G. Buschman] - Relations between Lauricella's triple hypergeometric function F A (3) (x , y , z) and Exton's function X 8

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Tags: #On #some #new #contiguous #relations #for #the #Gauss #hypergeometric #function #with #applications

Hypergeometric function



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The expressions for V and W can be deduced from the conditions of continuity of the sound field at the boundaries of the layer. John Wallis 1616 —1703 , in his book Arithmetica Infinitorum 1655 , extended the ordinary geometric series to the hypergeometric series: where n is a non-negative integer named after Leo August Pochhammer 1841—1920 , who used this notation for the rising factorial—sometimes also called the Pochhammer—function, Pochhammer polynomial, ascending factorial, rising sequential product, or the upper factorial.

Hypergeometric series

We illustrate this by proving the result 1 for the Legendre polynomial. In view of the principle of confluence involved in 45 , the solution 43 is also called the confluent hypergeometric function. Kummer's transformation Kummer's functions are also related by Kummer's transformations:

DLMF: 15.5 Derivatives and Contiguous Functions

Show that a 1, may be assigned any finite value including zero. Any differential equation with these characteristics can be brought into the hypergeometric form by a linear change of the independent variable, and hence can be solved near its singular points in terms of the hypergeometric function. Because of this fact we consider it useful to discuss the possibility of obtaining the term of order p 2, in the expansion of our general results, before we endeavor to obtain results in the low-energy region directly from these exact results.

DLMF: 16.3 Derivatives and Contiguous Functions

For the case of accelerating flow the upper sign in equation 7. As we found with these functions, we expect recurrence relations involving unit

changes in the parameters a, b, and c. Part I contains a very short but detailed exposition of the essential material of string theory required for a grounded understanding of the supersymmetric matrix models presented in part II.

Hypergeometric function

Olde 2010 , , in ; Lozier, Daniel M. Srivastava HM, Manocha HL: A Treatise on Generating Functions. Relations There are many relations between Kummer functions for various arguments and their derivatives.

On some new contiguous relations for the Gauss hypergeometric function with applications

One may use this transformation to get a more suitable set of the scalars a, P, 7. Finally, even if we abandon the idea of proceeding with analytical calculations, even for numerical work expansions in terms of Hermite polynomials, which is what equation 7. Then the equivalent conditions of Lemma 6.

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