
Subject: Gauss Hypergeometric function

Posted by [Fred\[1\]](#) on Wed, 16 Jun 2010 06:42:28 GMT

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Hello,

I need to use the gauss hypergeometric function 2F1 (for mathematica it is on <http://functions.wolfram.com/HypergeometricFunctions/Hypergeometric2F1/>); it is the solution of the indefinite integral $(1 + (x*L)^2)^{-q/2}$, with L and q positive constants; it seems not to be implemented in IDL. I have found some routines for the confluent hypergeometric function of the first kind. Has anybody a routine to reproduce this function without using the series expansion? Thanks for your attention

Subject: Re: Gauss Hypergeometric function

Posted by [Kenneth P. Bowman](#) on Wed, 16 Jun 2010 14:56:45 GMT

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In article

<930cbdbd-ac25-4bd3-b6cc-9da98b44f876@6g2000prg.googlegroups.com>, Fred <fedefras@gmail.com> wrote:

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> function without using the series expansion? Thanks for your attention

On a related note, the successor to the classic book by Abramowitz and Stegun and special functions is now online at NIST.

<http://dlmf.nist.gov/>

Many of us have the original volume propping up one end of our bookshelves.

The special function capabilities of the IDL IMSL library are somewhat limited, although some functions are available elsewhere in IDL (e.g., Legendre and Lagurre functions).

Ken Bowman

Subject: Re: Gauss Hypergeometric function
Posted by [jeffnetles4870](#) on Wed, 16 Jun 2010 15:43:11 GMT
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This website crashed firefox for me twice (running on Win 7)...anybody else have that problem?
