Source This example is from (2.9.14) of [KS04]: $H_{1,2}^{1,1}\left(\begin{array}{c} (1-a,1) \\ (0,1),(1-c,1) \end{array}\right) = \frac{\Gamma(a)}{\Gamma(b)} {}_{1}F_{1}(a;c;-z)$ **Notes:** The following generalized hypergeometric series ${}_{1}F_{1}(a;c;x)$ is also called the confluent hypergeometric function of Kummer. (see [Erd+81],equation (1), 6.1, page 248.) $1 + \frac{a}{c} \frac{x}{1!} + \frac{a(a+1)}{c(c+1)} \frac{x^2}{2!} + \cdots$ (1)(1) satisfies the so-called confluent hypergeometric equation $x\frac{d^2y}{dx^2} + (c-x)\frac{dy}{dx} - ay = 0.$ References [Erd+81]Arthur Erdélyi, Wilhelm Magnus, Fritz Oberhettinger, and Francesco G. Tricomi. Higher transcendental functions. Vol. I. Based on notes left by Harry Bateman, Reprint of the 1953 original. Robert E. Krieger Publishing Co., Inc., Melbourne, Fla., 1981, pp. xviii+396. ISBN: 0-89874-069-X. [KS04] Anatoly A. Kilbas and Megumi Saigo. H-transforms. Vol. 9. Analytical Methods and Special Functions. Theory and applications. Chapman & Hall/CRC, Boca Raton, FL, 2004, pp. xii+389. ISBN: 0-415-29916-0. DOI: 10.1201/9780203487372. URL: https://doi.org/ 10.1201/9780203487372.