

Chen, X.; Chu, W.

Evaluation of a class of terminating ${}_3F_2(\frac{4}{3})$ -series. (English) Zbl 1449.33008

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The authors define and study a large class of terminating ${}_3F_2(\frac{4}{3})$ -series. They involve two extra integer parameters. The signs of these parameters need special treatment. At the end of the paper numerous examples are calculated for the demonstration of the results.

Reviewer: István Mező (Nanjing)

MSC:

33C20 Generalized hypergeometric series, ${}_pF_q$

05A10 Factorials, binomial coefficients, combinatorial functions

Keywords:

classical hypergeometric series; Chu-Vandermonde formula; Pfaff-Saalschütz theorem; Dougall's summation theorem; linearization method

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