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Closed Formulas for Finite Sums of Weighted Fractional Generalized Fibonacci Products,

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Abstract

In this paper, we present closed formulas for finite sums of fractions involving weighted products of generalized Fibonacci numbers. There are two significant features that characterize the main results. First, the product in the denominator of each summand can be arbitrarily long. Second, in each summand that we consider, there is a so-called weight term. The weight term occurs either in the numerator or the denominator of the summand.