

Helmut Prodinger and Sarah J. Selkirk
Sums of Squares of Tetranacci Numbers: A Generating Function Approach,
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Abstract

It is demonstrated how an explicit expression of the (partial) sum of Tetranacci numbers can be found and proved using generating functions and the Hadamard product. We also provide a Binet-type formula for generalized Fibonacci numbers, by explicitly factoring the denominator of their generating functions.