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On sums of certain products of Lucas numbers, Fibonacci Quart. 44 (2006), no. 2, 172-180.

## Abstract

New results about certain sums $S_{n}(k)$ of products of the Lucas numbers are derived. These sums are related to the generating function of the $k$-th powers of the Fibonacci numbers. The sums for $S_{n}(k)$ are expressed by the binomial and the Fibonomial coefficients. Proofs of these formulas are based on a special inverse formula.

