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Some Generalized Fibonacci Identities Including Powers and Binomial Coefficients,

Fibonacci Quart. **52** (2014), no. 1, 50–60.

Abstract

We investigate several generalized Fibonacci identities including binomial coefficients by using the method of ordinary power series generating functions. We also discuss some identities yielding from Tribonacci, Tetranacci numbers, and even from general Fibonacci s-step numbers.