Hùng Việt Chu
Partial Sums of the Fibonacci Sequence,
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Abstract

Let $(F_n)_{n\geq 1}$ be the Fibonacci sequence. Define $P(F_n) = (\sum_{i=1}^{n} F_i)_{n\geq 1}$; that is, the function P gives the sequence of partial sums of (F_n). In this paper, we first give an identity involving $P^k(F_n)$, which is the resulting sequence by applying P to (F_n) k times. Second, we provide a combinatorial interpretation of the numbers in $P^k(F_n)$.