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A Matrix-based Recursion Relation for $\mathbf{F_{F_n}}$,
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Abstract

In 1977, Parberry introduced and proved a fifth-order and a sixth-order nonlinear recurrence relation for the sequence $(F_{F_n} : n \in \mathbb{N}_0)$, where F_n denotes the nth Fibonacci number. In this article, we prove an identity for F_{F_n} given by a Fibonacci-like recursion with matrix multiplication used in place of integer addition.