Robert Dougherty-Bliss *The Meta-C-Finite Ansatz*, Fibonacci Quart. **60** (2022), no. 5, 143–150.

Abstract

The Fibonacci numbers satisfy the famous recurrence $F_n = F_{n-1} + F_{n-2}$. The theory of C-finite sequences ensures that the Fibonacci numbers whose indices are divisible by m, namely F_{mn} , satisfy a similar recurrence for every positive integer m, and these recurrences have an explicit, uniform representation. We will show that a(mn) has a uniform recurrence over m for any C-finite sequence a(n) and use this to automatically derive some famous summation identities.