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Polynomial Extensions of the Lucas and Ginsburg Identities, Fibonacci Quart. 52 (2014), no. 2, 141-147.

## Abstract

We extend the well-known Lucas identity $F_{n+1}^{3}+F_{n}^{3}-F_{n-1}^{3}=F_{3 n}$ and the Ginsburg identity $F_{n+2}^{3}-3 F_{n}^{3}+F_{n-2}^{3}=3 F_{3 n}$ to Fibonacci and Lucas polynomials. This yields interesting dividends to Pell and Pell-Lucas polynomials and numbers.

