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Some Extended Gibonacci Polynomial Sums with Dividends,
Fibonacci Quart. **57** (2019), no. 4, 303–312.

Abstract

We investigate some gibbonacci polynomial sums, and extract their implications to the Pell, Pell-Lucas, Jacobsthal, Jacobsthal-Lucas, Vieta, Vieta-Lucas, and Chebyshev families. We also explore the graph-theoretic interpretations of the gibbonacci polynomial sums and the corresponding Jacobsthal versions.