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Polynomial Extensions of a Diminnie Delight,
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Abstract

As a neat application of Chebyshev polynomials of the first kind, we extend to Fibonacci polynomials a complex recurrence studied by C. R. Diminnie. We then explore the corresponding versions to Lucas, Pell, and Pell-Lucas polynomials, and extract the respective number-theoretic versions. In addition, we pursue two interesting recurrences with Fibonacci, Lucas, Pell, and Pell-Lucas implications.