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Coefficient Convergence of Recursively Defined Polynomials,
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Abstract

This article partially answers an open problem of Kimberling. Consider a sequence of polynomials satisfying an m th order recursive relation with polynomial coefficients. Under what circumstances can we say anything exact about the coefficients of x^i ? The paper's main theorem asserts that under modest assumptions, there exists a computable constant, c , such that, for each i , the coefficients of x^i eventually satisfy a polynomial of degree i with the i th difference operator applied to this polynomial equaling c^i .