Rigoberto Flórez and Robinson A. Higuita
Another Proof for Partial Strong Divisibility Property of Lucas-Type Polynomials,
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Abstract

A second order polynomial sequence $\mathcal{L}_n(x)$ is of *Lucas-type* if its Binet formula has a structure similar to Lucas numbers. This sequence partially satisfies the strong divisibility property [1]. Thus, $\gcd(\mathcal{L}_n(x), \mathcal{L}_m(x))$ is 1, 2, or $\mathcal{L}_{\gcd(n,m)}(x)$. In this paper, we give a short, simple, and different proof of this property.