Nils Gaute Voll

The Cassini Identity and Its Relatives,
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Abstract

We make use of an observation connected to three term recurrence relations to obtain Cassini-like formulas for Fibonacci and Lucas numbers in addition to similar identities for Fibonacci, Lucas, Jacobsthal, Morgan-Voyce, Chebyshev and Dickson polynomials. A general result for three term recurrences is also given.