Lawrence Somer Lucas Pseudoprimes of Special Types, Fibonacci Quart. **46/47** (2008/2009), no. 3, 198–206.

Abstract

Rotkiewicz has shown that there exist Fibonacci pseudoprimes having the forms p(p+2), p(2p-1), and p(2p+3), where all the terms in the products are odd primes. Assuming Dickson's conjecture on prime *k*-tuples, we generalize this result by finding an infinite class of Lucas sequences, each having infinitely many Lucas pseudoprimes of the five types: p(p+2), p(2p-3), p(2p-1), p(2p+1), and p(2p+3).