

Lawrence Somer

Lucas sequences $\{U_k\}$ for which U_{2p} and U_p are pseudoprimes for almost all primes p ,

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Abstract

It was proven by Emma Lehmer that for almost all odd primes p , F_{2p} is a Fibonacci pseudoprime. In this paper, we generalize this result to Lucas sequences $\{U_k\}$. In particular, we find Lucas sequences $\{U_k\}$ for which either U_{2p} is a Lucas pseudoprime for almost all odd primes p or U_p is a Lucas pseudoprime for almost all odd primes p .