Gaurav Bhatnagar<br>Analogues of a Fibonacci-Lucas Identity, Fibonacci Quart. 54 (2016), no. 2, 166-171.


#### Abstract

Sury's 2014 proof of an identity for Fibonacci and Lucas numbers (Identity 236 of Benjamin and Quinn's 2003 book: Proofs that Count: The Art of Combinatorial Proof) has excited a lot of comment. We give an alternate, telescoping, proof of this, and associated, identities and generalize them. We also give analogous identities for other sequences that satisfy a three-term recurrence relation.


