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*Two Algebraic Identities and the Alternating Fibonacci Sums Produced
By Them,*

Fibonacci Quart. **54** (2016), no. 2, 154–159.

Abstract

In this paper, we present two algebraic identities that we believe are new. These algebraic identities produce, via the telescoping effect, closed forms for a host of finite sums that involve the Fibonacci/Lucas numbers. All the finite sums contained herein are alternating in nature.