

N. Garnier and O. Ramaré
Fibonacci numbers and trigonometric identities,
Fibonacci Quart. **46/47** (2008/2009), no. 1, 56–61.

Abstract

In 1969 Webb and Parberry proved a startling trigonometric identity involving Fibonacci numbers. This identity has remained isolated up to now, despite the amount of work on related polynomials. We provide a wide generalization of this identity together with what we believe (and hope!) to be its proper understanding.