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Closed Forms for Finite Sums in Which the Denominator of the Summand is a Product of Trigonometric Functions,

Fibonacci Quart. **54** (2016), no. 3, 196–203.

Abstract

In this paper, we present closed forms for certain finite sums. In each case, the denominator of the summand is a product of sine or cosine functions. Furthermore, in each case, the arguments of the trigonometric functions in the denominator of the summand increase in arithmetic progression.