Abstract

Recently, K. Dillcher and K. B. Stolarsky [Trans. Amer. Math. Soc. 357 (2004), 965 – 981] used algebraic methods to evaluate the resultant of two linear combinations of Chebyshev polynomials of the second kind. In this paper we give an alternative method of computing the same resultant and resultants of more general combinations of Chebyshev polynomials of the second kind. We also consider resultants of linear combinations of Chebyshev polynomials of the first kind.