DIFFERENTIAL EQUATIONS OF NON-SHEFFER POLYNOMIALS $\eta_{n,m,r,\alpha}(x, y; c)$

Tadayoshi Takebayashi

Abstract

Dattoli et al. [G. Dattoli, B. Germano, M. R. Martinelle and P. E. Ricci, Sheffer and non-Sheffer polynomial families, Int. J. Math. Math. Sci. 2012, Art. ID 323725, pp. 8] defined the non-Sheffer polynomials $\sigma_{n,\alpha}(x)$. We define non-Sheffer polynomials $\eta_{n,m,r,\alpha}(x, y; c)$ and examine differential equations satisfied by them.