DIFFERENTIAL EQUATIONS OF ASSOCIATED GENERALIZED HUMBERT POLYNOMIALS $G_{n,m}^{(\alpha)}(x, y; c)$

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Abstract

We define associated generalized Humbert polynomials $G_{n,m}^{(\alpha)}(x, y; c)$, (Weiping Wang and Hui Wang, Generalized Humbert polynomials via generalized Fibonacci polynomials, Appl. Math. Comput. 307 (2017), 204-216; M. A. Pathan and W. A. Khan, On a class of Humbert-Hermite polynomials, preprint, 2019) and examine differential equations satisfied by them.