

Zeros of the hypergeometric polynomials

$${}_2F_1(-n, -x; a; t)$$

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We examine the zeros of the hypergeometric polynomials

$${}_2F_1(-n, -x; a; t), \quad a, t \in \mathbb{R}, n \in \mathbb{N}$$

for various values of the parameters a and t . We focus on Meixner polynomials that satisfy a discrete orthogonality relation for certain values of these parameters as well as on the behavior of the zeros of these polynomials as the parameter t tends to infinity.