The discrete extension of Markov's theorem on monotonicity of zeros

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Resumo

Motivated by an open problem proposed by M. E. H. Ismail in his monograph "Classical and quantum orthogonal polynomials in one variable"(Cambridge University Press, 2005), we study the behavior of zeros of orthogonal polynomials associated with the modification of a positive measure supported on a subset of the real line by adding a mass point out of the support.

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