

Abstract

We present some properties for the zeros $x_{nk}^{(\lambda)}$, $k = 1, 2, \dots, n$ of the ultraspherical polynomial $P_n^{(\lambda)(x)}$, of degree n . Bounds for $x_{nk}^{(\lambda)}$ are also studied. In general our results are valid for fixed n and large values of λ . Finally a conjecture for $x_{nk}^{(\lambda)}$ is also formulated.