
#### Abstract

It is proved that the real part of any zero of the polynomial $P_{N+1}(x)$ of degree $N$ which is defined by $\alpha_{n+1} P_{n+1}(x)-\alpha_{n} P_{n-1}(x)-b_{n} P_{n}(x)=x c_{n} P_{n}(x), P_{0}(x)=0$, $P_{1}(x)=1$, is negative in the case $b_{n}>0, c_{n}>0$. A consequence of this result is that the zeros of the Bessel polynomials, as well as the zeros of the generalized Bessel polynomials for $\alpha>2$, have negative real parts. Moreover, an estimate of the real part, which can be easily found, improves a well-known inequality, in the case $\alpha>3 N-1$.


