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On the distribution of the roots of polynomial $z^k - z^{k-1} - \cdots - z - 1$

Comment.Math.Univ.Carolin. 62,3 (2021) 291 –296.

Abstract: We consider the polynomial $f_k(z) = z^k - z^{k-1} - \cdots - z - 1$ for $k \geq 2$ which arises as the characteristic polynomial of the k-generalized Fibonacci sequence. In this short paper, we give estimates for the absolute values of the roots of $f_k(z)$ which lie inside the unit disk.

Keywords: polynomial root distribution
AMS Subject Classification: 12F10, 11B39

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