

Year: 2019	Vol.: 94	Fasc.: 3-4
------------	----------	------------

Title: On the zeros of reciprocal polynomials

Author(s): László Losonczi

The purpose of this paper is to study reciprocal polynomials whose zeros are located in certain subsets of the complex plane. Of particular interest are the half planes $\Re z < 0$, $\Re z > 0$, the positive and negative half-lines and the unit circle. Our main tool is the Chebyshev transform (see, e.g., LAKATOS [8]) and a Viéta-like formula for reciprocal polynomials (see LOSONCZI [12]). Using these, we find necessary conditions, in some cases necessary and sufficient conditions for the reciprocal polynomials to have their zeros in the above sets.

Address:

László Losonczi
Faculty of Economics
University of Debrecen
H-4028 Debrecen
Böszörményi út 26
Hungary