ESTIMATES FOR THE MODULII OF THE ZEROS OF A POLYNOMIAL

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Abstract. In this paper, we prove a more general result concerning the location of the zeros of a polynomial in a ring shaped region from which we deduce an interesting and significant refinement of a classical result of Cauchy. A variety of other results, which in particular include several known extensions and generalizations of Enestrom - Kakeya Theorem, can be established from this result by a fairly uniform procedure.

Key words and phrases: polynomials, zeros, Fibonacci’s numbers, Enstrome-Kakeya theorem.

REFERENCES