

## GENERALIZATION OF ENESTRÖM-KAKEYA THEOREM AND ITS EXTENSION TO ANALYTIC FUNCTIONS

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*Abstract.* In this paper, by using standard techniques we shall obtain a result that gives regions containing all the zeros of a polynomial with real coefficients. Our result not only generalizes several well-known results concerning the location of zeros of polynomials but also yields an answer to a question raised by Professor N. K. Govil. We also obtain a similar result for analytic functions. In addition to this, we show by examples that our result gives better information about the bounds of zeros of polynomials than some known results.

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