

MR1338718 (96e:26017) [26D07](#) [26D10](#)**Gardner, Robert B.** [[Gardner, Robert Bentley](#)] (1-ETNS);**Govil, Narendra K.** (1-ABRN)**An L^p inequality for a polynomial and its derivative.** (English summary)*J. Math. Anal. Appl.* **193** (1995), *no.* 2, 490–496.

Let $P(z) = a_n \prod_{\nu=1}^n (z - z_\nu)$, $a_n \neq 0$. It is known that if $|z_\nu| \geq 1$, $1 \leq \nu \leq n$, then for $p \geq 1$,

$$(*) \quad \left(\int_0^{2\pi} |P'(e^{i\theta})|^p d\theta \right)^{1/p} \leq n F_p \left(\int_0^{2\pi} |P(e^{i\theta})|^p d\theta \right)^{1/p},$$

where F_p is given in the paper under review. The authors extend the above inequality to values of $p \in [0, 1)$ and thus $(*)$ holds for all $p \geq 0$. *L. Leindler*

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