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Growth of polynomials not vanishing inside a circle. (English summary)


Summary: “A well-known theorem of N. C. Ankeny and T. J. Rivlin [Pacific J. Math. 5 (1955), 849–852; MR0076020] states that if $p(z)$ is a polynomial of degree $n$, $p(z) \neq 0$ for $|z| < 1$, then $\max_{|z|=R>1} |p(z)| \leq \left( \frac{R^n+1}{2} \right) \max_{|z|=1} |p(z)|$. In this paper we generalize and sharpen this and some other results in this direction.”

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