

Zbl 556.41002

Erdős, Paul

Problems and results on polynomials and interpolation. (In English)

Functions, series, operators, Proc. int. Conf., Budapest 1980, Vol. I, Colloq. Math. Soc. János Bolyai 35, 485-495 (1983).

[For the entire collection see Zbl 523.00007.]

A personal selection by *P. Erdős* of recent results and open problems about polynomials and Lagrange interpolation. The following problem carries the offer of a \$ 250 reward: Let $f_n(z)$ be a polynomial of degree n with leading coefficient 1. Prove that the length of the curve(s) $|f_n(z)| = 1$ is maximal for $f_n(z) = z^n - 1$.

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Classification:

41A05 Interpolation

30C10 Polynomials (one complex variable)

30E05 Moment problems, etc.

00A07 Problem books

Keywords:

open problems; polynomials; Lagrange interpolation