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**On a Problem of A. Eremenko**

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**Abstract.** Let  $P_{mn}$ ,  $0 < m < n - 1$ , be a polynomial formed by the first  $m$  terms of the expansion of  $(1 + z)^n$  according to the binomial formula. We show that, if  $m, n \rightarrow \infty$  in such a way that  $\lim_{m,n \rightarrow \infty} m/n = \alpha \in (0, 1)$ , then the zeros of  $P_{mn}$  tend to a curve which can be explicitly described.

**Keywords.** Asymptotic formula, conformal mapping, polynomial, subharmonic function, Szegő's method, univalent function, zeros.

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