
Zbl 046.04103
Erdős, Pál
On the sum $\sum_{k=1}^{x} d(f(k))$. (In English)
J. London Math. Soc. 27, 7-15 (1952).

Let $d(n)$ denote the number of divisors of a positive integer n and $f(x)$ be a polynomial with integral coefficients. The author proves that

$$0 < c_1 < \left(\overline{\lim_{N\to\infty}} \sum_{x=1}^{N} d(f(x)) \right) / N \log N < c_2 < \infty.$$

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Classification:
11N37 Asymptotic results on arithmetic functions