journal of inequalities in pure and applied mathematics
issn: 1443-5756

Volume 6, Issue 2, Article 31

A Note On Sums Of Powers Which Have A Fixed Number Of Prime Factors

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Keywords: Sums of powers, Numbers with k prime factors.

Date Received: 05/10/04

Date Accepted: 16/02/05

Subject Codes: 11N25, 11N37.

Editors: László Tóth,

Abstract: Let us denote by $c_{n,k}$ the sequence of numbers which have in its factorization k prime factors ($k \geq 1$), we obtain in short proofs asymptotic formulas for $c_{n,k}$, $\sum_{i=1}^{n} c_{i,k}^{\alpha}$ and $\sum_{c_{i,k} \leq x} c_{i,k}^{\alpha}$. We generalize the work by T. Sálat y S. Znam when $k = 1$ (see reference [2]).