

Mathematics > Number Theory

On Karatsuba's Problem Concerning the Divisor Function $\tau(n)$

M.A.Korolev

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We study an asymptotic behavior of the sum $\sum_{n \leq x} \frac{\tau(n)}{D \tau(n) \tau(n+a)}$. Here $\tau(n)$ denotes the number of divisors of n and $a \geq 1$ is a fixed integer.

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