# A New Upper Bound of the Logarithmic Mean

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**Abstract:**

Let $a$ and $b$ be positive numbers with $a \neq b$. The inequalities about the logarithmic-mean

$$L(a,b) < H_p(a,b) < M_q(a,b)$$

are obtained, where $p \geq \frac{1}{2}$ and $q \geq \frac{2}{3}p$. We would point out that $p = \frac{1}{2}$ and $q = \frac{1}{3}$ are the best constants such that above inequalities hold.

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