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## A New Upper Bound of the Logarithmic Mean

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Best constant.

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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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