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8. Analysis

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Liu, Zheng, Anshan Institute of Iron and Steel Technology, P. R. China

Inequalities for Some Means

Follow [1], using the Gauss' and Borchart's algorithms to consider the t-modification [2] of the Gauss arithmetic-geometric mean and the logarithmic mean. Some inequalities between them and other means are derived.
[1] J. Sandor, On certain inequalities for means, J. Math. Anal. Appl. 199 (1996), 629–635. [2] M. K. Vamanamurthy and M. Vuorinen, Inequalities for means, J. Math. Anal. Appl. 183 (1994) 155–166.