

GENERALIZATIONS OF SHERMAN'S INEQUALITY BY HERMITE'S INTERPOLATING POLYNOMIAL

M. ADIL KHAN, S. IVELIĆ BRADANOVIĆ AND J. PEČARIĆ

Abstract. Generalizations of Sherman's inequality for convex functions of higher order are obtained by applying Hermite's interpolating polynomials. The results for particular cases, namely, Lagrange, $(m, n - m)$ and two-point Taylor interpolating polynomials are also considered. The Grüss and Ostrowski type inequalities related to these generalizations are given.

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