

ASYMPTOTICS OF MEAN VALUE POINTS IN THE SCHWARZ THEOREM FOR DIVIDED DIFFERENCES

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We establish inequalities describing the asymptotic behavior of mean value points in the sense of the Schwarz theorem for general divided differences constructed for a function with a certain growth order at a given point. These inequalities generalize a number of known results, in particular, of ones connected with the asymptotics of Lagrange points in the Taylor formula.

Key words and phrases: divided difference, Schwarz theorem, mean value theorem, B -spline, Peano kernel, asymptotics of mean value points.

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