TIME SCALE VERSIONS OF THE OSTROWSKI–GRÜSS TYPE INEQUALITY WITH A PARAMETER FUNCTION

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Abstract. In this paper, we obtain two Ostrowski–Grüss type inequalities on time scales for bounded differentiable mappings with a parameter function. Our result generalizes some known results in this direction, for example, a result due to Ngô and Liu [11]. In addition, we consider the special cases where the time scale is chosen to be the set of real numbers and the set of integers.


Keywords and phrases: Grüss inequality, Ostrowski’s inequality, Montgomery identity, time scales.

REFERENCES