



## NOTES TO EXTREMA OF FUNCTIONS

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**ABSTRACT.** *The necessary and the sufficient condition for the existence of a local extremum give us instructions on how to find extrema and also provide a procedure to determine the kind of extremum. However, the situation may not always be exemplary, as we would expect, and for some tasks (mentioned in the paper) we also have to use other methods in order to detect local or constrained extrema.*

**KEY WORDS:** *function of several variables, local extrema, constrained extrema*

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