ON A FLETT'S MEAN VALUE THEOREM

ABSTRACT. In the paper a generalization of a theorem of Flett [2] is proved. This result states that if $f \in C''[a,b]$ and $f^{(n)}(a)=f^{(n)}(b)$, the there is $c \in (a,b)$ such that the value of the Taylor polynomial of f in c calculaled in the point a is equal to f(a).

In paragraph 2 the theorem of Flett is extended in $\mathbb{R}^r$ and a naturel generalization for two functions is given.

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