ON NON–SYMMETRIC $t$–CONVEX FUNCTIONS

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Abstract. Let $I \subseteq \mathbb{R}$ be an open interval. We consider a functions $f : I \rightarrow \mathbb{R}$ satisfying

$$f(tx + (1-t)y) \leq tf(x) + (1-t)f(y), \quad (*)$$

for a fixed $t \in (0,1)$ and $x \leq y$. We discuss the relations between the class of functions satisfying inequality $(*)$ and the class of $t$-convex functions.


Keywords and phrases: inequalities, convexity, $t$-convexity, $t$-affinity.

REFERENCES