WRIGHT–CONVEXITY WITH RESPECT TO ARBITRARY MEANS

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Abstract. Let $I \subset \mathbb{R}$ be an open interval and $M, N : I^2 \rightarrow I$ be means on $I$. We give sufficient conditions on means $M$ and $N$ under which every first Baire class solution $f : I \rightarrow \mathbb{R}$ of the functional inequality

$$f(M(x, y)) + f(N(x, y)) \leq f(x) + f(y), \quad x, y \in I,$$

is convex.

Key words and phrases: Wright convexity, Jensen convexity.

REFERENCES