

WRIGHT TYPE MULTIPLICATIVELY CONVEX FUNCTIONS

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Abstract. The notion of Wright type multiplicatively convex functions is introduced. Relationships between such functions and multiplicatively convex functions are investigated, and a counterpart of the Ng representation theorem for Wright convex functions is presented. It is proved that the function $F(x_1, \dots, x_n) = f(x_1) \cdots f(x_n)$ is multiplicatively Schur-convex if and only if f is Wright type multiplicatively convex. A Hermite-Hadamard type inequality for Wright type multiplicatively convex functions is also given.

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