

Year: 2014

Vol.: 84

Fasc.: 1-2

Title: On functional equations involving means

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Let $I \subset \mathbb{R}$ be a non-void open interval and let $M, N : I^2 \rightarrow I$ be two mean values on I . We consider functional equations of type

$$K(M(x, y)) = K(N(x, y)) \quad (x, y \in I)$$

where $K : I \rightarrow \mathbb{R}$ is an unknown function.

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