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**Title:** Regularity theorem for a functional equation involving means

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We prove a result improving regularity of solutions of equation

$$\kappa x + (1 - \kappa)y = \lambda\varphi^{-1}(\mu\varphi(x) + (1 - \mu)\varphi(y)) + (1 - \lambda)\psi^{-1}(\nu\psi(x) + (1 - \nu)\psi(y)),$$

and leading to generalizations of some theorems established by D. Głazowska, W. Jarczyk, and J. Matkowski and by Z. Daróczy and Zs. Páles.

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