

[Lajkó, Károly](#)

On a functional equation of Alsina and García-Roig. (English) [Zbl 0912.39010](#)
Publ. Math. Debr. 52, No. 3-4, 507-515 (1998).

The author determines, for every fixed $p \in]0, 1[$, the general solution $f : I \rightarrow \mathbb{R}$ of the functional equation

$$f(px + (1-p)y)f((1-p)x + py) = f(x)f(y) \quad (x, y \in I),$$

supposing that f is different from zero on a set of positive Lebesgue measures. The main theorem (Theorem 2) provides a generalization of a result of *W. Jarczyk* and *M. Sablik* [*Result. in Math.* 26, No. 3-4, 324-335 (1994; [Zbl 0829.39008](#))].

Reviewer: [Zoltán Boros \(Debrecen\)](#)

MSC:

[39B22](#) Functional equations for real functions

Cited in **1** Review
Cited in **8** Documents

Keywords:

functional equation; general solution; k -additive symmetric functions