STABILITY OF CUBIC AND QUATRIC FUNCTIONAL EQUATION IN QUASI-β-NORMED SPACES

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Abstract

In this paper, we introduce and investigate the general solution of a new functional equation

$$2a^4 f\left(\frac{x+y}{a}\right) + 2a^4 f\left(\frac{x-y}{a}\right) = (1+a)\left[f(x+y) + f(x-y)\right]$$
$$+ (1-a)\left[f(-x+y) + f(-x-y)\right]$$

where $a \geq 2$ and discuss its Generalized Hyers - Ulam - Rassias stability in Quasi -β- Normed spaces.

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