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A general uniqueness theorem concerning the stability of AQCQ type functional equations.
(English) [Zbl 1433.39011](#)
Kyungpook Math. J. 58, No. 2, 291-305 (2018).

Summary: In this paper, we prove a general uniqueness theorem which is useful for proving the uniqueness of the relevant additive mapping, quadratic mapping, cubic mapping, quartic mapping, or the additive-quadratic-cubic-quartic mapping when we investigate the (generalized) Hyers-Ulam stability.

MSC:

[39B82](#) Stability, separation, extension, and related topics for functional equations
[39B52](#) Functional equations for functions with more general domains and/or ranges

Keywords:

uniqueness; stability; Hyers-Ulam stability; generalized Hyers-Ulam stability

Full Text: [DOI](#)

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