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On a method of proving the Hyers-Ulam stability of functional equations on restricted domains. (English) Zbl 1175.39014

Aust. J. Math. Anal. Appl. 6, No. 1, Article 4, 10 p. (2009).

Summary: We show that generalizations of some (classical) results on the Hyers-Ulam stability of functional equations, in several variables, can be very easily derived from a simple result on stability of a functional equation in a single variable.

MSC:

39B82	Stability, separation, extension, and related topics for functional equations	Cited in **31** Documents
39B52	Functional equations for functions with more general domains and/or ranges	
20L05	Groupoids (i.e. small categories in which all morphisms are isomorphisms)	

Keywords:

functional equations; square symmetric groupoid; complete metric; semigroup; Cauchy equation; Jensen equation; quadratic equation; Hyers-Ulam stability

Full Text: Link