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Title: On the characterization of n -polyadditive functions

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The paper investigates the class of arithmetical functions satisfying the equation $\sum_{1 \leq i_1 < i_2 < \dots < i_k \leq n} (-1)^k f(a_{i_1} a_{i_2} \dots a_{i_k}) = 0$. The set of solutions contains the completely additive and the completely quadritive functions.

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