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Abstract

The purpose of this paper is to solve for f(n) where

$$g_r(n) = \sum_{k=0}^r a_k f(n-k),$$
 (*)

where f(n) = 0 if n < 0, and $\{a_0, a_1, \ldots\}$ are constants. The main results are a recursive formula and an explicit formula for the inversion of the series defined by (*).