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## Abstract

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

$$
\begin{equation*}
g_{r}(n)=\sum_{k=0}^{r} a_{k} f(n-k), \tag{*}
\end{equation*}
$$

where $f(n)=0$ if $n<0$, and $\left\{a_{0}, a_{1}, \ldots\right\}$ are constants. The main results are a recursive formula and an explicit formula for the inversion of the series defined by $\left({ }^{*}\right)$.

