

Trasformate Zeta

f_n	$Z\{f_n\}$
1	$\frac{z}{z-1}$
$e^{\alpha n}$	$\frac{z}{z-e^\alpha}$
$\cos(\omega n)$	$\frac{z(z-\cos(\omega))}{z^2-2z\cos(\omega)+1}$
$\sin(\omega n)$	$\frac{z\sin(\omega)}{z^2-z\cos(\omega)+1}$
n	$\frac{z}{(z-1)^2}$
n^2	$\frac{z^2+z}{(z-1)^3}$

h_n	$Z\{h_n\}$
nf_n	$-z \frac{dZ\{f_n\}}{dz}$
$f_n e^{\omega n}$	$Z\{f_n\} \Big _{z=ze^{-\omega}}$
f_{n-k}	$z^{-k} Z\{f_n\}$
$f_n * g_n$	$Z\{f_n\} Z\{g_n\}$
$f_n = \begin{cases} f_n^* & n = 1, 2, 3, \dots, T-1 \\ f_{n+T} = f_n \end{cases}$	$Z\{f_n^*\} \frac{1}{1-z^{-T}}$
$f_n g_n$	$\frac{1}{2\pi j} \int_{C_R} F(\sigma) G\left(\frac{z}{\sigma}\right) \frac{1}{\sigma} d\sigma = \sum_{k=0}^{+\infty} f_k g_k z^{-k}$