Table of $\mathcal{Z}$ Transforms	
$(x_k)_{k=0}^{\infty}$	$\mathcal{Z}\left[(x_k)_{k=0}^{\infty}\right](z)$
$x_k = \begin{cases} 1 & k = 0 \\ 0 & k > 0 \end{cases}$ (unit pulse)	1
$x_k = a^k$	$\dfrac{z}{z-a}$
$x_k = ka^{k-1}$	$\dfrac{z}{(z-a)^2}$
$\begin{aligned} x_k &= e^{-kT} \\ &= (e^{-T})^k \end{aligned}$	$\dfrac{z}{z-e^{-T}}$
$x_k = \cos k\omega$	$\dfrac{z(z-\cos\omega)}{z^2-2z\cos\omega+1}$
$x_k = \sin k\omega$	$\dfrac{z\sin\omega}{z^2-2z\cos\omega+1}$