Pary transformat DFT

Sygnał $x(n),\ 0 \le n \le N-1$	**Transformata** $X(k),\ 0 \le k \le N-1$
$\delta(n)$	1
$\delta(n-n_0)$, $0 \le n_0 \le N-1$	$e^{-j2\pi n_0 k/N}$
$e^{j2\pi k_0 n/N},\ 0 \le k_0 < N-1$	$\delta(k-k_0)$
$\mathbf{1}(n)-\mathbf{1}(n-N)$	$\delta(k)$
$\begin{cases} 1, & 0 \le n \le m \\ 0, & m < n \le N-1 \end{cases}$	$\exp\left(j\dfrac{\pi k m}{N}\right)\dfrac{\sin\left[\dfrac{\pi k(m+1)}{N}\right]}{\sin\dfrac{\pi k}{N}}$
$\exp(-a\,n/N),\ a>0$	$\dfrac{1-e^{-(a+j2\pi k)}}{1-e^{-(a+j2\pi k)/N}}$
$ne^{-an},\ a>0$	$\dfrac{e^{-(a+j2\pi k/N)}}{\left(1-e^{-(a+j2\pi k/N)}\right)^2}\cdot$ $\cdot\left(1-Ne^{-a(N-1)(a+j2\pi k/N)}+(N-1)e^{-(aN+j2\pi k/N)}\right)$
$e^{-an}\cos\left(\dfrac{\pi n}{N}\right),\ a>0$	$\dfrac{1-e^{-(a/N-j\pi(1-2k))}}{2\left[1-e^{-(a-j\pi/N(1-2k))}\right]}+\dfrac{1-e^{-(a/N+j\pi(1+2k))}}{2\left[1-e^{-(a+j\pi/N(1+2k))}\right]}$
$e^{-an}\sin\left(\dfrac{\pi n}{N}\right),\ a>0$	$\dfrac{1-e^{-(a/N-j\pi(1-2k))}}{2j\left[1-e^{-(a-j\pi/N(1-2k))}\right]}-\dfrac{1-e^{-(a/N+j\pi(1+2k))}}{2j\left[1-e^{-(a+j\pi/N(1+2k))}\right]}$