PROPRIETÀ
$\mathbf{L}\left(k_1 f_1(t)+k_2 f_2(t)\right)=k_1 F_1(s)+k_2 F_2(s)$
$\mathbf{L}\left(f(t-\mathbf{t})\right)=e^{-st}F(s)+e^{-st}\int_{-t}^{0} f(t)\cdot e^{-st}dt$
$F(s-a) = \mathbf{L}\left(e^{at}\cdot f(t)\right)$
$\mathbf{L}\left(f(a\cdot t)\right)=\frac{1}{a}F\left(\frac{s}{a}\right)$
$F_1(s)\cdot F_2(s) = \mathbf{L}\left(f_1(t) * f_2(t)\right)$
$\mathbf{L}\left(\frac{d\,f}{dt}\right)=s\cdot F(s)-f(0)$
$\mathbf{L}\left(\int_0^t f(\mathbf{t})d\mathbf{t}\right)=\frac{F(s)}{s}$
$\frac{d\,F(s)}{ds} = \mathbf{L}\left(-t\cdot f(t)\right)$
$\lim_{t\to 0} f(t)=\lim_{s\to\infty} s\cdot F(s)$
$\lim_{t\to +\infty} f(t)=\lim_{s\to 0} s\cdot F(s)$

PROPRIETÀ
$Z\left(h_1u_1(k)+h_2u_2(k)\right)=h_1U_1(z)+h_2U_2(z)$
$Z\left(u(k-k_0)\right)=\begin{cases} z^{-k_0}U(z)+\sum_{i=-k_0}^{-1} z^{-(i+k_0)}u(i) & k_0>0 \\ z^{-k_0}U(z)-\sum_{i=0}^{-(k_0+1)} z^{-i}u(i) & k_0<0 \end{cases}$
$Z\left(a^k\cdot u(k)\right)=U\left(\frac{z}{a}\right)$
$Z\left(u_1(k)\otimes u_2(k)\right)=U_1(z)\cdot U_2(z)$
$Z\left(u(k)-u(k-1)\right)=\frac{z-1}{z}U(z)-z^{-1}\cdot u(-1)$
$Z\left(\sum_{i=0}^{k} u(i)\right)=\frac{z}{z-1}\cdot U(z)$
$Z\left(k\cdot u(k)\right)=-z\cdot\frac{d\ U(z)}{d\ z}$
$u(0)=\lim_{z\to\infty} U(z)$
$\lim_{z\to 1} (z-1)\cdot U(z) = \lim_{k\to +\infty} u(k)$

d(t) (impulso)	*1*
H(t) (gradino)	*1/s*
$\frac{1}{(n-1)!}t^{n-1}$	$\frac{1}{s^n}$
e^{at}	$\frac{1}{(s-\mathbf{a})}$
$\frac{t^{n-1}}{(n-1)!}\cdot e^{a\,t}$	$\frac{1}{(s-\mathbf{a})^n}$
sin(wt)	$\frac{\mathbf{w}}{(s^2+\mathbf{w}^2)}$
cos(wt)	$\frac{s}{(s^2+\mathbf{w}^2)}$
sin(wt+j)	$\frac{sin(\mathbf{j})\cdot s+\cos(\mathbf{j})\cdot\mathbf{w}}{(s^2+\mathbf{w}^2)}$
$e^{\mathbf{a}t}sin(\mathbf{w}t+\mathbf{j})$	$\frac{sin(\mathbf{j})\cdot(s-\mathbf{a})+\cos(\mathbf{j})\cdot\mathbf{w}}{(s-\mathbf{a})^2+\mathbf{w}^2}$
$\frac{t^{n-1}}{(n-1)!}sin(\mathbf{w}t)$	$\frac{\mathbf{w}}{(s^2+\mathbf{w}^2)^n}\cdot\sum_{k=0}^{\frac{n-1}{2}}\left[(-1)^k\binom{n}{2k+1}\cdot\mathbf{w}^{2k}\cdot s^{n-2k}\right.$
$\frac{t^{n-1}}{(n-1)!}\cos(\mathbf{w}t)$	$\frac{1}{(s^2+\mathbf{w}^2)^n}\cdot\sum_{k=0}^{\frac{n}{2}}\left[(-1)^k\binom{n}{2k}\cdot\mathbf{w}^{2k}\cdot s^{n-2k}\right]$

d(k) (impulso)	*1*
H(k) (gradino)	*z/(z-1)*
$\frac{k^n}{n!}$	$\frac{1}{n!}\left(-z\cdot\frac{d}{dz}\right)^n\frac{z}{z-1}$
$\frac{k^{(n)}}{n!}$	$\frac{z}{(z-1)^{n+1}}$
a^k	$\frac{z}{z-a}$
$\frac{k^n}{n!}\cdot a^k$	$\frac{1}{n!}\cdot\left(-z\frac{d}{dz}\right)^n\left(\frac{z}{z-a}\right)$
$\frac{k^{(n)}}{n!}a^{k-n}$	$\frac{z}{(z-a)^{n+1}}$
sin(kW)	$\frac{z\cdot sin\Omega}{z^2-2z\cos\Omega+1}$
cos(kW)	$\frac{z^2-z\cdot\cos\Omega}{z^2-2z\cos\Omega+1}$
$a^k\ sin(k\Omega)$	$\frac{z\cdot a\cdot sin\Omega}{z^2-2z\cdot a\cdot\cos\Omega+a^2}$
$a^k\cos(k\Omega)$	$\frac{z^2-z\cdot a\cdot\cos\Omega}{z^2-2z\cdot a\cdot\cos\Omega+a^2}$