Dominio del tiempo, $x(t)$	Dominio de la variable s, $X(s)$	ROC
$ax_1(t) + bx_2(t)$	$aX_1(s) + bX_2(s)$	$R' = R_1 \cap R_2$
$x(t - t_0)$	$e^{-st_0}X(s)$	$R' = R$
$e^{s_0 t}x(t)$	$X(s - s_0)$	$R' = R + \Re\{s_0\}$
$x(at)$	$\dfrac{1}{\|a\|}X\left(\dfrac{s}{a}\right)$	$R' = aR$
$x(-t)$	$X(-s)$	$R' = -R$
$\dfrac{\mathrm{d}x(t)}{\mathrm{d}t}$	$sX(s) - x(0^-)$	$R' \supset R$
$-tx(t)$	$\dfrac{\mathrm{d}X(s)}{\mathrm{d}s}$	$R' \supset R$
$\displaystyle\int_{-\infty}^{t} x(\tau)\,\mathrm{d}\tau$	$\dfrac{X(s)}{s}$	$R' = R \cap \{\mathbb{R}\{s\} > 0\}$
$\dfrac{x(t)}{t}$	$\displaystyle\int_{s}^{\infty} X(s)\,\mathrm{d}s$	$R' = R \cap \{\mathbb{R}\{s\} > 0\}$
$x_1(t) * x_2(t)$	$X_1(s) \cdot X_2(s)$	$R' \supset R_1 \cap R_2$

Tabla 1. Propiedades de la Transformada de Laplace

Dominio del tiempo, $x[n]$	Dominio de la variable z, $X(z)$	ROC
$ax_1[n] + bx_2[n]$	$aX_1(z) + bX_2(z)$	$R' = R_1 \cap R_2$
$x[n - n_0]$	$z^{-n_0}X(z)$	$R' = R$
$e^{j\omega_0 n}x[n]$	$X(e^{-j\omega_0}z)$	R
$z_0^n x[n]$	$X\left(\dfrac{z}{z_0}\right)$	$z_0 R$
$a^n x[n]$	$X(a^{-1}z)$	$R' = aR$
$x^*[n]$	$X^*(z^*)$	R
$x_1[n] * x_2[n]$	$X_1(z)X_2(z)$	At least the intersection of R_1 and R_2
$x[n] - x[n-1]$	$(1 - z^{-1})X(z)$	At least the intersection of R and $\|z\| > 0$
$\sum_{k=-\infty}^{n} x[k]$	$\frac{1}{1-z^{-1}}X(z)$	At least the intersection of R and $\|z\| > 1$
$nx[n]$	$-z\frac{dX(z)}{dz}$	R

Tabla 2. Propiedades de la Transformada de z