

Tabla de Transformada de Laplace. Propiedades

$f(t), g(t), t \geq 0$	$\mathcal{L}[f(t)](s) = F(s), s > \alpha, \quad \mathcal{L}[g(t)](s) = G(s), s > \beta$
$t^n \quad (n \in \mathbb{Z}_0^+)$	$\frac{n!}{s^{n+1}}, \quad s > 0$
$\text{sen}(bt), \quad b \in \mathbb{R}$	$\frac{b}{s^2 + b^2}, \quad s > 0$
$\cos(bt), \quad b \in \mathbb{R}$	$\frac{s}{s^2 + b^2}, \quad s > 0$
$\text{senh}(bt), \quad b \in \mathbb{R}$	$\frac{b}{s^2 - b^2}, \quad s >  b $
$\cosh(bt), \quad b \in \mathbb{R}$	$\frac{s}{s^2 - b^2}, \quad s >  b $
$e^{bt}f(t), \quad b \in \mathbb{R}$	$F(s - b), \quad (s - b) > \alpha$
$f'(t)$	$s \mathcal{L}[f(t)](s) - f(0^+), \quad s > \alpha$
$t^m f(t) \quad (m \in \mathbb{Z}^+)$	$(-1)^m \frac{d^m}{ds^m} F(s), \quad s > \alpha$
$\delta(t - a), \quad a \geq 0$	$e^{-as}, \quad s > 0$
$\int_0^t f(t) dt$	$\frac{F(s)}{s}, \quad s > \max\{\alpha, 0\}$
$f(t - c)H(t - c), \quad c \geq 0$	$e^{-cs}F(s), \quad s > \alpha$
$(f * g)(t) = \int_0^t f(t - u) g(u) du$	$F(s)G(s), \quad s > \max\{\alpha, \beta\}$