

Transformada de Laplace			
$f(t) = \mathcal{L}^{-1}(F)(t)$	$F(s) = \mathcal{L}(f)(s)$	$f(t) = \mathcal{L}^{-1}(F)(t)$	$F(s) = \mathcal{L}(f)(s)$
1	$\frac{1}{s}, s > 0$	e^{at}	$\frac{1}{s-a}, s > a$
$\cos at$	$\frac{s}{s^2 + a^2}, s > 0$	$\text{sen } at$	$\frac{a}{s^2 + a^2}, s > 0$
$t^n, n = 0, 1, 2, \dots$	$\frac{n!}{s^{n+1}}, s > 0$	$e^{at}f(t)$	$F(s-a)$
$f'(t)$	$sF(s) - f(0)$	$f''(t)$	$s^2F(s) - sf(0) - f'(0)$
$t \cos at$	$\frac{s^2 - a^2}{(s^2 + a^2)^2}, s > 0$	$t \text{sen } at$	$\frac{2as}{(s^2 + a^2)^2}, s > 0$
$\text{sen } at - at \cos at$	$\frac{2a^3}{(s^2 + a^2)^2}, s > 0$	$\delta(t - t_0)$	$e^{t_0s}, s > 0$
$u_a(t) = \begin{cases} 0, & 0 \leq t < a \\ 1, & t \geq a \end{cases}$	$\frac{e^{-as}}{s}, s > 0$	$u_a(t)f(t-a)$	$e^{-as}F(s)$
$f(t)\delta(t - t_0)$	$e^{t_0s}f(t_0)$	$\int_0^t f(t-x)g(x)dx$	$F(s)G(s)$

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$u_a(t) = \begin{cases} 0, & 0 \leq t < a \\ 1, & t \geq a \end{cases}$	$\frac{e^{-as}}{s}, s > 0$	$u_a(t)f(t-a)$	$e^{-as}F(s)$
$f(t)\delta(t - t_0)$	$e^{t_0s}f(t_0)$	$\int_0^t f(t-x)g(x)dx$	$F(s)G(s)$