TABLA DE TRANSFORMADA DE LAPLACE

Nº	$L\{f(\mathrm{t})\} = F(s)$	Nº	$L\{f(\mathrm{t})\} = F(s)$
1	$L\{1\} = \dfrac{1}{s}$; $s > 0$	11	$L\{e^{at} f(t)\} = F(s-a)$
2	$L\{t\} = \dfrac{1}{s^2}$; $s > 0$	12	$L\{t^n f(t)\} = (-1)^n F^{(n)}(s)$
3	$L\{t^n\} = \dfrac{n!}{s^{n+1}}$; $n = 1,2,3,\ldots$; $s > 0$	13	$L\{U(t-a)\} = \dfrac{e^{-as}}{s}$
4	$L\{e^{at}\} = \dfrac{1}{s-a}$; $s > a$	14	$L\{f(t-a)U(t-a)\} = e^{-as}F(s)$; $a \geq 0$
5	$L\{sen(kt)\} = \dfrac{k}{s^2 + k^2}$; $s > 0$	15	$L\{f(t)U(t-a)\} = e^{-as}L\{f(t+a)\}$ con $a \geq 0$
6	$L\{\cos(kt)\} = \dfrac{s}{s^2 + k^2}$; $s > 0$	16	$L\{\delta(t-a)\} = e^{-as}$
7	$L\{t\,sen(kt)\} = \dfrac{2ks}{(s^2 + k^2)^2}$; $s > 0$	17	$L\left\{\displaystyle\int_0^t f(u)g(t-u)\,du\right\} = F(s)G(s)$
8	$L\{t\cos(kt)\} = \dfrac{s^2 - k^2}{(s^2 + k^2)^2}$; $s > 0$	18	$L\left\{\displaystyle\int_0^t f(u)\,du\right\} = \dfrac{F(s)}{s}$
9	$L\{senh(kt)\} = \dfrac{k}{s^2 - k^2}$; $s > |k|$	19	$L\{f(t)\} = \dfrac{1}{1 - e^{-sT}} \displaystyle\int_0^T e^{-st} f(t)\,dt$ $f(t)$ función periódica, de periodo T
10	$L\{\cosh(kt)\} = \dfrac{s}{s^2 - k^2}$; $s > |k|$	20	$L\{y(t)\} = Y(s)$ $L\{y'(t)\} = sY(s) - y(0)$ $L\{y''(t)\} = s^2 Y(s) - sy(0) - y'(0)$ $\ldots$ $L\{y^{(n)}(t)\} = s^n Y(s) - s^{n-1} y(0) - \ldots - y^{(n-1)}(0)$
	$2senA\cos B = sen(A+B) + sen(A-B)$ $2senA\,senB = \cos(A-B) - \cos(A+B)$		$2\cos A\cos B = \cos(A+B) + \cos(A-B)$ $2\cos A\,senB = sen(A+B) - sen(A-B)$