Função	Primitiva	Função	Primitiva	Função	Primitiva
$u^r u'$ $(r \neq -1)$	$\dfrac{u^{r+1}}{r+1}$	$\dfrac{u'}{u}$	$\ln|u|$	$u'e^u$	e^u
$u'a^u$	$\dfrac{a^u}{\ln a}$	$u'\cos u$	$\operatorname{sen} u$	$u'\operatorname{sen} u$	$-\cos u$
$u'\sec^2 u$	$\operatorname{tg} u$	$u'\operatorname{cosec}^2 u$	$-\cotg u$	$u'\sec u$	$\ln|\sec u + \operatorname{tg} u|$
$u'\operatorname{cosec} u$	$-\ln|\operatorname{cosec} u + \cotg u|$	$\dfrac{u'}{\sqrt{1-u^2}}$	$-\arccos u$ ou $\operatorname{arcsen} u$	$\dfrac{u'}{1+u^2}$	$\operatorname{arctg} u$ ou $-\operatorname{arccotg} u$

$\sec x = \dfrac{1}{\cos x}$ $\operatorname{cosec} x = \dfrac{1}{\operatorname{sen} x}$	$\operatorname{sen}(x \pm y) = \operatorname{sen} x \cos y \pm \cos x \operatorname{sen} y$ $\cos(x \pm y) = \cos x \cos y \mp \operatorname{sen} x \operatorname{sen} y$ $\operatorname{sen}(2x) = 2\operatorname{sen} x \cos x$ $\cos(2x) = \cos^2 x - \operatorname{sen}^2 x$	$\cos^2 x = \dfrac{1+\cos(2x)}{2}$ $\operatorname{sen}^2 x = \dfrac{1-\cos(2x)}{2}$	$1 + \operatorname{tg}^2 x = \sec^2 x$ $1 + \cotg^2 x = \operatorname{cosec}^2 x$

Função	Transformada	Função	Transformada	Função	Transformada
t^n $(n \in \mathbb{N}_0)$	$\dfrac{n!}{s^{n+1}}$ $(s>0)$	e^{at} $(a \in \mathbb{R})$	$\dfrac{1}{s-a}$ $(s>a)$	$\operatorname{sen}(at)$ $(a \in \mathbb{R})$	$\dfrac{a}{s^2+a^2}$ $(s>0)$
$\cos(at)$ $(a \in \mathbb{R})$	$\dfrac{s}{s^2+a^2}$ $(s>0)$	$\operatorname{senh}(at)$ $(a \in \mathbb{R})$	$\dfrac{a}{s^2-a^2}$ $(s>|a|)$	$\cosh(at)$ $(a \in \mathbb{R})$	$\dfrac{s}{s^2-a^2}$ $s>|a|$

Propriedades da transformada de Laplace

$F(s) = \mathcal{L}\{f(t)\}(s)$, com $s > s_f$ e $G(s) = \mathcal{L}\{g(t)\}(s)$, com $s > s_g$

$\mathcal{L}\{f(t)+g(t)\}(s) = F(s)+G(s)\,,\ s > \max\{s_f, s_g\}$	$\mathcal{L}\{\alpha f(t)\}(s) = \alpha F(s)\,,\ s > s_f \text{ e } \alpha \in \mathbb{R}$
$\mathcal{L}\{e^{\lambda t} f(t)\}(s) = F(s-\lambda)\,,\ s > s_f + \lambda \text{ e } \lambda \in \mathbb{R}$	$\mathcal{L}\{t^n f(t)\}(s) = (-1)^n F^{(n)}(s)\,,\ s > s_f \text{ e } n \in \mathbb{N}$
$\mathcal{L}\{H_a(t) \cdot f(t-a)\}(s) = e^{-as} F(s)\,,\ s > s_f \text{ e } a > 0$	$\mathcal{L}\{f(at)\}(s) = \dfrac{1}{a}\, F\left(\dfrac{s}{a}\right)\,,\ s > a\,s_f \text{ e } a > 0$

$$\mathcal{L}\{f^{(n)}(t)\}(s) = s^n F(s) - s^{n-1} f(0) - s^{n-2} f'(0) - \ldots - s f^{(n-2)}(0) - f^{(n-1)}(0)$$

$$\text{com } s > \max\{s_f, s_{f'}, s_{f''} \ldots, s_{f^{(n-1)}}\},\ n \in \mathbb{N}$$

$$\mathcal{L}\{(f * g)(t)\}(s) = F(s) \cdot G(s), \quad \text{onde} \quad (f * g)(t) = \int_0^t f(\tau)g(t-\tau)\,d\tau,\ t \geq 0$$