

<b>Table of Laplace Transforms</b>	
$f(t)$ for $t \geq 0$	$\mathcal{L}[f](s)$
1	$\frac{1}{s}$
$e^{at}$	$\frac{1}{s - a}$
$t^n$	$\frac{n!}{s^{n+1}} \quad (n = 0, 1, \dots)$
$t^n e^{at}$	$\frac{n!}{(s - a)^{n+1}} \quad (n = 0, 1, \dots)$
$\sin at$	$\frac{a}{s^2 + a^2}$
$\cos at$	$\frac{s}{s^2 + a^2}$
$\sinh at$	$\frac{a}{s^2 - a^2}$
$\cosh at$	$\frac{s}{s^2 - a^2}$
$\sin at \sin bt$	$\frac{2abs}{[s^2 + (a + b)^2][s^2 - (a - b)^2]}$
1 for $0 \leq t < c$ 0 for $t \geq c$	$\frac{1 - e^{-cs}}{s}$
1 for $0 \leq t < c$ 0 for $c \leq t < 2c$ period $2c$ (square wave)	$\frac{1}{s(1 + e^{-cs})}$