Table of Laplace Transforms	
Special Rules	
$f(t)$	$F(s) = \big(\mathcal{L}(f)\big)(s)$
1	$\dfrac{1}{s}$
t	$\dfrac{1}{s^2}$
t^n	$\dfrac{n!}{s^{n+1}}$
e^{at}	$\dfrac{1}{s-a}$
$\cos(\omega t)$	$\dfrac{s}{s^2+\omega^2}$
$\sin(\omega t)$	$\dfrac{\omega}{s^2+\omega^2}$
$e^{at}\cos(\omega t)$	$\dfrac{s-a}{(s-a)^2+\omega^2}$
$e^{at}\sin(\omega t)$	$\dfrac{\omega}{(s-a)^2+\omega^2}$
$H_c(t)$	$\dfrac{e^{-cs}}{s}$
$H_{ab}(t)$	$\dfrac{e^{-as}-e^{-bs}}{s}$

Table of Laplace Transforms	
General Rules	
$f(t)$	$F(s) = \big(\mathcal{L}(f)\big)(s)$
$g(t)$	$G(s) = \big(\mathcal{L}(g)\big)(s)$
$f(t)+g(t)$	$F(s)+G(s)$
$f(t)-g(t)$	$F(s)-G(s)$
$c\,f(t)$	$c\,F(s)$
$e^{at}f(t)$	$F(s-a)$
$f'(t)$	$s\,F(s)-f(0)$
$f''(t)$	$s^2\,F(s)-s\,f(0)-f'(0)$
$t\,f(t)$	$-F'(s)$
$H(t-c)\,f(t-c)$	$e^{-cs}\,F(s)$
below $f(t)$ is periodic with the period T and $f_T(t)$ is the window function of $f(t)$	
$f_T(t)$	$F_T(s)$
$f(t)$	$\dfrac{F_T(s)}{1-e^{-Ts}}$