Table of Laplace Transforms

$f(t) = \mathscr{L}^{-1}\{F(s)\}$	$F(s) = \mathscr{L}\{f(t)\}$
e^{at}	$\dfrac{1}{s-a}$
t^n	$\dfrac{n!}{s^{n+1}}$
$\sin(bt)$	$\dfrac{b}{s^2+b^2}$
$\cos(bt)$	$\dfrac{s}{s^2+b^2}$
$u_c(t)f(t-c)$	$e^{-cs}F(s)$
$u_c(t)f(t)$	$e^{-cs}\mathscr{L}\{f(t+c)\}(s)$
$e^{ct}f(t)$	$F(s-c)$
$(f*g)(t)$	$F(s)G(s)$
$\delta(t-c)$	e^{-cs}
$f^{(n)}(t)$	$s^nF(s) - s^{n-1}f(0) - \ldots - f^{(n-1)}(0)$