	$Y(s)=\mathcal{L}(y)$	$y(t)=\mathcal{L}^{-1}(Y)$
1.	$aY(s)+bV(s)$	$ay(t)+bv(t)$
2.	$W(s)Y(s)$	$\int_0^t w(t-r)y(r)dr$
3.	$sY(s)$	$y'(t)+y(0)$
4.	$\frac{1}{s}Y(s)$	$\int_0^t y(r)dr$
5.	$e^{-as}Y(s)$	$y(t-a)H(t-a)$ for $a>0$
6.	$Y(s+a)$	$e^{-at}y(t)$
7.	$\frac{1}{s}e^{-as}$	$H(t-a)$ for $a>0$
8.	$\frac{1}{s+a}$	e^{-at}
9.	$\frac{n!}{(s+a)^{n+1}}$	$t^n e^{-at}$ for $n=1,2,3,\dots$
10.	$\frac{\omega}{(s+a)^2+\omega^2}$	$e^{-at}\sin(\omega t)$
11.	$\frac{s+a}{(s+a)^2+\omega^2}$	$e^{-at}\cos(\omega t)$
12.	$\frac{cs+d}{(s-s_1)(s-s_2)}$	$\Big[c+(ac+d)t\Big]e^{at}$ if $s_1=s_2=a$ $\frac{1}{a-b}\Big[(ac+d)e^{at}-(bc+d)e^{bt}\Big]$ if $\begin{matrix} s_1=a \\ s_2=b \end{matrix}$ $e^{at}\Big[c\cos(bt)+\frac{ac+d}{b}\sin(bt)\Big]$ if $\begin{matrix} s_1=a+ib \\ s_2=a-ib \end{matrix}$
13.	e^{-as}	$\delta(t-a)$ for $a>0$
14.	$\frac{1}{(s+b)^n}e^{-as}$	$\frac{1}{(n-1)!}(t-a)^{n-1}e^{-b(t-a)}H(t-a)$ for $\begin{matrix} a>0, \\ n=1,2,3,\dots \end{matrix}$
15.	$\frac{1}{s}e^{-as}Y(s)$	$H(t-a)\int_0^{t-a} y(r)dr$ for $a>0$

Table 6.1. *Laplace and inverse Laplace transforms. The function $H(x)$ is defined in (6.25), and $\delta(t)$ is defined in Section 6.7.1.*