Table 6.1 Some Functions f(t) and Their Laplace Transforms $\mathcal{L}(f)$

	f(t)	£ (f)		f(1)	ድ (J)
ı	1	1/3	7	cos mi	$\frac{s}{s^2 + \omega^2}$
2	E	1/s2	8	sin មា	$\frac{\omega}{s^2 + \omega^2}$
3	i ²	2!/s³	9	cosh ar	$\frac{s}{s^2 - a^2}$
4	t^n $(n = 0, 1, \cdots)$	n! sn+1	10	sinh ae	$\frac{a}{s^2 - a^2}$
5	r ^a (a positive)	$\frac{\Gamma(a+1)}{s^{a+1}}$	11	ent cos mi	$\frac{s-a}{(s-a)^2+\omega^2}$
6	eat	$\frac{1}{s-a}$	12	e ^{at} sin wt	$\frac{\omega}{(s-a)^2+\omega^2}$