Laplace transforms:

$f(t) = \mathcal{L}^{-1}\{F(s)\}$	$F(s) = \mathcal{L}\{f(t)\}$
1	$\dfrac{1}{s}, \quad s > 0$
e^{at}	$\dfrac{1}{s-a}, \quad s > a$
$t^n, \quad n =$ positive integer	$\dfrac{n!}{s^{n+1}}, \quad s > 0$
$t^p, \quad p > -1$	$\dfrac{\Gamma(p+1)}{s^{p+1}}, \quad s > 0$
$\sin at$	$\dfrac{a}{s^2 + a^2}, \quad s > 0$
$\cos at$	$\dfrac{s}{s^2 + a^2}, \quad s > 0$
$\sinh at$	$\dfrac{a}{s^2 - a^2}, \quad s > \lvert a \rvert$
$\cosh at$	$\dfrac{s}{s^2 - a^2}, \quad s > \lvert a \rvert$
$e^{at} \sin bt$	$\dfrac{b}{(s-a)^2 + b^2}, \quad s > a$
$e^{at} \cos bt$	$\dfrac{s-a}{(s-a)^2 + b^2}, \quad s > a$
$t^n e^{at}, \quad n =$ positive integer	$\dfrac{n!}{(s-a)^{n+1}}, \quad s > a$
$u_c(t)$	$\dfrac{e^{-cs}}{s}, \quad s > 0$
$u_c(t) f(t-c)$	$e^{-cs} F(s)$
$e^{ct} f(t)$	$F(s-c)$
$f(ct)$	$\dfrac{1}{c} F\left(\dfrac{s}{c}\right), \quad c > 0$
$\displaystyle\int_0^t f(t-\tau) g(\tau) d\tau$	$F(s) G(s)$
$\delta(t-c)$	e^{-cs}
$f^{(n)}(t)$	$s^n F(s) - s^{n-1} f(0) - s^{n-2} f'(0) - \cdots - f^{(n-1)}(0)$
$(-t)^n f(t)$	$F^{(n)}(s)$