$f(t)$	$Laplace\{f(t)\}$	$Trasformata \quad Z$
$h(t)$	$\frac{1}{s}$	$\frac{z}{z-1}$
t	$\frac{1}{s^2}$	$\frac{Tz}{(z-1)^2}$
$\frac{t^2}{2}$	$\frac{1}{s^3}$	$\frac{T^2 z(z+1)}{2(z-1)^3}$
t^{k-1}	$\frac{(k-1)!}{s^k}$	$\lim_{a\to 0}(-1)^{k-1}\frac{\partial^{k-1}}{\partial a^{k-1}}\left[\frac{z}{z-e^{-aT}}\right]$
e^{-at}	$\frac{1}{s+a}$	$\frac{z}{z-e^{-aT}}$
te^{-at}	$\frac{1}{(s+a)^2}$	$\frac{Tze^{-aT}}{(z-e^{-aT})^2}$

$t^k e^{-at}$	$\dfrac{k!}{(s+a)^{k+1}}$	$(-1)^k \dfrac{\partial^k}{\partial a^k}\left[\dfrac{z}{z-e^{-aT}}\right]$
$1-e^{-at}$	$\dfrac{a}{s(s+a)}$	$\dfrac{z(1-e^{-aT})}{(z-1)(z-e^{-aT})}$
$t-\dfrac{1-e^{-at}}{a}$	$\dfrac{a}{s^2(s+a)}$	$\dfrac{z[(aT-1+e^{-aT})z+(1-e^{-aT}-aTe^{-aT})]}{a(z-1)^2(z-e^{-aT})}$
$1-(1+at)e^{-at}$	$\dfrac{a^2}{s\ (s+a)^2}$	$\dfrac{z}{z-1}-\dfrac{z}{z-e^{-aT}}-\dfrac{aTe^{-aT}z}{(z-e^{-aT})^2}$
$e^{-at}-e^{-bt}$	$\dfrac{b-a}{(s+b)(s+a)}$	$\dfrac{(e^{-aT}-e^{-bT})z}{(z-e^{-aT})(z-e^{-bT})}$
$\sin(at)$	$\dfrac{a}{s^2+a^2}$	$\dfrac{z\sin(aT)}{z^2-2z\cos(aT)+1}$
$\cos(at)$	$\dfrac{s}{s^2+a^2}$	$\dfrac{z(z-\cos(aT))}{z^2-2z\cos(aT)+1}$

$e^{-at}\sin(bt)$	$\dfrac{b}{(s+a)^2+b^2}$	$\dfrac{ze^{-aT}\sin(bT)}{z^2-2ze^{-aT}\cos(bT)+e^{-2aT}}$
$e^{-at}\cos(bt)$	$\dfrac{s+a}{(s+a)^2+b^2}$	$\dfrac{z^2-ze^{-aT}\cos(bT)}{z^2-2ze^{-aT}\cos(bT)+e^{-2aT}}$
$1-e^{-at}(\cos(bt)+$ $+\dfrac{a}{b}\sin(bt))$	$\dfrac{b^2+a^2}{s\left[(s+a)^2+b^2\right]}$	$\dfrac{(Az+B)z}{(z-1)(z^2-2ze^{-aT}\cos(bT)+e^{-2aT})}$ $A=1-e^{-aT}(\cos(bT)+\dfrac{a}{b}\sin(bT)\quad)$ $B=e^{-2aT}+e^{-aT}(\dfrac{a}{b}\sin(bT)-\cos(bT))$
$\dfrac{1}{ab}+\dfrac{e^{-at}}{a(a-b)}+$ $+\dfrac{e^{-bt}}{b(b-a)}$	$\dfrac{1}{s(s+a)(s+b)}$	$\dfrac{(Az+B)z}{(z-1)(z-e^{-aT)}(z-e^{-bT})}$