TRANSFORMATY LAPLACE'A

$f(t)$	$F(s)$
$\delta(t)$	1
$1(t)$	$\dfrac{1}{s}$
$\dfrac{t^{n-1}}{(n-1)!}$	$\dfrac{1}{s^n}$
$\dfrac{1}{\tau}exp\left(-\dfrac{t}{\tau}\right)$	$\dfrac{1}{\tau s+1}$
$sin(\omega t)$	$\dfrac{\omega}{s^2+\omega^2}$
$cos(\omega t)$	$\dfrac{s}{s^2+\omega^2}$
$1-exp\left(-\dfrac{t}{\tau}\right)$	$\dfrac{1}{s(\tau s+1)}$
$\dfrac{1}{\tau^n(n-1)!}t^{n-1}exp\left(-\dfrac{t}{\tau}\right)$	$\dfrac{1}{(\tau s+1)^n}$
$1-exp\left(-\dfrac{t}{\tau}\right)\left[1+\dfrac{t}{\tau}+...+\dfrac{1}{(n-1)!}\left(\dfrac{t}{\tau}\right)^{n-1}\right]$	$\dfrac{1}{s(\tau s+1)^n}$
$\dfrac{1}{\tau_1-\tau_2}\left[exp\left(-\dfrac{t}{\tau_1}\right)-exp\left(-\dfrac{t}{\tau_2}\right)\right]$	$\dfrac{1}{(\tau_1 s+1)(\tau_2 s+1)}$
$1-\dfrac{1}{\tau_1-\tau_2}\left[\tau_1 exp\left(-\dfrac{t}{\tau_1}\right)-\tau_2 exp\left(-\dfrac{t}{\tau_2}\right)\right]$	$\dfrac{1}{s(\tau_1 s+1)(\tau_2 s+1)}$
$\dfrac{1}{\tau\sqrt{1-\xi^2}}exp\left(-\xi\dfrac{t}{\tau}\right)sin\left(\sqrt{1-\xi^2}\,\dfrac{t}{\tau}\right)$	$\dfrac{1}{\tau^2 s^2+2\tau\xi s+1}$ dla $\xi<1$
$1-\dfrac{1}{\sqrt{1-\xi^2}}exp\left(-\xi\dfrac{t}{\tau}\right)sin\left(\sqrt{1-\xi^2}\,\dfrac{t}{\tau}+\varphi\right)$ $\varphi=arctg\left(\dfrac{\sqrt{1-\xi^2}}{\xi}\right)$	$\dfrac{1}{s(\tau^2 s^2+2\tau\xi s+1)}$ dla $\xi<1$