Laplaceova transformace	Fourierova transformace
$\mathscr{L}[f(ct)](p) = \frac{1}{c}\mathscr{L}[f(t)](\frac{p}{c})$	$\mathscr{F}[f(cx)](\xi) = \frac{1}{\lvert c\rvert^n}\mathscr{F}[f(t)](\frac{\xi}{c})$
$\mathscr{L}[(-t)^n f(t)](p) = \frac{\mathtt{d}^n}{\mathtt{d}p^n}\mathscr{L}[f(t)](p)$	$\mathscr{F}[(\mathtt{i}x)^\alpha f(x)](\xi) = \mathcal{D}^\alpha \mathscr{F}[f(x)](\xi)$
$\mathscr{L}[\dot f(t)](p) = p\,\mathscr{L}[f(t)](p)\boxed{-f(0_+)}$, kde ozn člen není v zob. $\mathscr{L}$	$\mathscr{F}[\mathcal{D}^\alpha\big(f(x)\big)](\xi) = (-\mathtt{i}\xi)^\alpha\,\mathscr{F}[f(x)](\xi)$
$\mathscr{L}[\Theta(t)\int_0^t f(\tau)\,\mathtt{d}\tau](p) = \frac{1}{p}\mathscr{L}[f(t)](p)$	$\mathscr{F}[1](\xi) = (2\pi)^n\delta(\xi)$
$\mathscr{L}[\frac{f(t)}{t}](p) = \int_p^\infty \mathscr{L}[f(t)](q)\,\mathtt{d}q$	$\mathscr{F}\mathscr{F}[f(x)] = (2\pi)^n f(-x)$
$\mathtt{e}^{ap}\mathscr{L}[f(t)](p) = \mathscr{L}[f(t+a)](p)$	$\mathtt{e}^{\mathtt{i}\mu\xi}\,\mathscr{F}[f(x)](\xi) = \mathscr{F}[f(x-\mu)](\xi)$
$\mathscr{L}[\mathtt{e}^{at}f(t)](p) = \mathscr{L}[f(t)](p-a)$	$\mathscr{F}[\mathtt{e}^{\mathtt{i}\mu x}f(x)](\xi) = \mathscr{F}[f(x)](\xi+\mu)$
$\int_0^\infty f(\tau)\,\mathtt{d}\tau = \lim_{p\to 0_+}\mathscr{L}[f(t)](p)$	$\lim_{\lvert\xi\rvert\to\infty}\mathscr{F}[f(x)](\xi) = 0$
$\mathscr{L}[f(t)\star g(t)] = \mathscr{L}[f(t)]\cdot\mathscr{L}[g(t)]$	$\mathscr{F}[f(x)\star g(x)] = \mathscr{F}[f(x)]\cdot\mathscr{F}[g(x)]$
$\int_0^\infty f(t)\,\mathscr{L}[g(\tau)](t)\,\mathtt{d}t = \int_0^\infty \mathscr{L}[f(\tau)](t)\,g(t)\,\mathtt{d}t$	$\int_{-\infty}^\infty f(x)\mathscr{F}[g(y)](x)\,\mathtt{d}x = \int_{-\infty}^\infty \mathscr{F}[f(y)](x)\,g(x)\,\mathtt{d}x$
	$\mathscr{F}:\mathscr{S}\mapsto\mathscr{S}$ i $\mathscr{F}:\mathscr{S}'\mapsto\mathscr{S}'$ jsou spojité

Laplaceův vzor	Laplaceův obraz
$\delta(t-\tau)$	$\mathtt{e}^{-p\tau}$
$\Theta(t)$	$\frac{1}{p}$
$\Theta(t)\,t^n\ \ (n\in\mathbf{N}_0)$	$\frac{n!}{p^{n+1}}$
$\Theta(t)\,t^\alpha\ \ (\alpha>-1)$	$\frac{\Gamma(\alpha+1)}{p^{\alpha+1}}$
$\Theta(t)\,\mathtt{e}^{\mu t}$	$\frac{1}{p-\mu}$
$\Theta(t)\,\sin(\beta t)$	$\frac{\beta}{p^2+\beta^2}$
$\Theta(t)\,\cos(\beta t)$	$\frac{p}{p^2+\beta^2}$
$\Theta(t)\,(\sin(t)-t\cos(t))$	$\frac{2}{(1+p^2)^2}$
$\Theta(t)\,\mathtt{e}^{\mu t}\cos(\omega t)$	$\frac{p-\mu}{(p-\mu)^2+\omega^2}$
$\Theta(t)\,\mathtt{e}^{\mu t}\sin(\omega t)$	$\frac{\omega}{(p-\mu)^2+\omega^2}$
$\Theta(t)\,\sinh(\omega t)$	$\frac{\omega}{p^2-\omega^2}$
$\Theta(t)\,\cosh(\omega t)$	$\frac{p}{p^2-\omega^2}$

Fourieův vzor	Fourieův obraz	Obor
$\mathtt{e}^{-a\lVert x\rVert^2}$	$(\frac{\pi}{a})^{n/2}\mathtt{e}^{-\frac{\lVert\vec\xi\rVert^2}{4a}}$	$\mathbf{R}^n$
$\Theta(x)\,\mathtt{e}^{-ax},\ \mathrm{Re}(a)>0$	$\frac{1}{a-\mathtt{i}\xi} = \frac{\mathtt{i}}{\xi+\mathtt{i}a}$	$\mathbf{R}$
$\Theta(x)\,\mathtt{e}^{-a\lvert x\rvert},\ \mathrm{Re}(a)>0$	$\frac{2a}{a^2+\xi^2}$	$\mathbf{R}$
$\delta(x-\mu)$	$\mathtt{e}^{\mathtt{i}\xi\mu}$	$\mathbf{R}^n$
$\Theta(x)$	$\pi\delta(\xi)\ +\ \mathtt{i}\mathcal{P}\frac{1}{\xi}$	$\mathbf{R}$
$\Theta(-x)$	$\pi\delta(\xi)\ -\ \mathtt{i}\mathcal{P}\frac{1}{\xi}$	$\mathbf{R}$
$\mathrm{sgn}(x)$	$2\mathtt{i}\mathcal{P}\frac{1}{\xi}$	$\mathbf{R}$
1	$(2\pi)^n\,\delta(\xi)$	$\mathbf{R}^n$
$\mathcal{P}\frac{1}{x}$	$\mathtt{i}\pi\,\mathrm{sgn}(\xi)$	$\mathbf{R}$
$\mathcal{P}\frac{1}{x^2}$	$-\pi\,\lvert\xi\rvert$	$\mathbf{R}$
$\mathtt{e}^{\mathtt{i}x^2}$	$\sqrt{\pi}\,\mathtt{e}^{-\frac{\mathtt{i}}{4}(\xi^2-\pi)}$	$\mathbf{R}$
$\Theta(\mathtt{R}-\lvert x\rvert)$	$2\,\frac{\sin(\mathtt{R}\xi)}{\xi}$	$\mathbf{R}$
$\frac{\Theta(\mathtt{R}-\lVert x\rVert)}{\sqrt{\mathtt{R}^2-\lVert x\rVert^2}}$	$2\pi\,\frac{\sin(\mathtt{R}\lVert\xi\rVert)}{\lVert\xi\rVert}$	$\mathbf{R}^2$
$\delta_{S_\mathtt{R}}(x)$	$4\pi\mathtt{R}\,\frac{\sin(\mathtt{R}\lVert\xi\rVert)}{\lVert\xi\rVert}$	$\mathbf{R}^3$
x^α	$(-\mathtt{i})^{\lvert\alpha\rvert}(2\pi)^n\delta^{(\alpha)}(\xi)$	$\mathbf{R}^n$
$\mathtt{e}^{\mathtt{i}cx}$	$2\pi\delta(\xi+c)$	$\mathbf{R}$
$\cos(cx)$	$\pi\big(\delta(\xi-c)+\delta(\xi+c)\big)$	$\mathbf{R}$
$\sin(cx)$	$\mathtt{i}\pi\big(\delta(\xi-c)-\delta(\xi+c)\big)$	$\mathbf{R}$