${\cal F}$	${\cal L}$	${\mathcal Z}$
$F(\omega) = \int_{-\infty}^{\infty} f(t) e^{-i\omega t} dt$	$L(s) = \int_0^\infty f(t) e^{-st} dt$	$X(z) = \sum_{n=0}^{\infty} x[n]z^{-n}$
$f(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} F(\omega) e^{i\omega t} d\omega$	$f(t) = \frac{1}{2\pi i} \int_{Br} L(s) e^{st} ds$	$x[n] = \frac{1}{2\pi i} \oint_C X(z) z^{n-1} dz$
	$f(t) = 0 \ (t < 0)$	$x[n] = 0 \ (n < 0)$
$\mathcal{F}\left[f(t)\right] = F(\omega)$	$\mathcal{L}\left[f(t) ight] = L(s)$	$\mathcal{Z}\left[x[n]\right] = X(z)$
$\mathcal{F}\left[F(t) ight]=2\pi f(-\omega)$		
$\mathcal{F}\left[f(at)\right] = \frac{1}{ a } F\left(\frac{\omega}{a}\right)$	$\mathcal{L}\left[f(at)\right] = \frac{1}{ a } L\left(\frac{s}{a}\right)$	
$\mathcal{F}\left[f(t)e^{i\omega_0t}\right] = F\left(\omega - \omega_0\right)$	$\mathcal{L}\left[f(t)e^{s_0t}\right] = L\left(s - s_0\right)$	
$\mathcal{F}\left[f(t-t_0)\right] = F(\omega)e^{-i\omega t_0}$	$\mathcal{L}\left[f(t-t_0)\right] = L(s)e^{-t_0s}$	$\mathcal{Z}\left[x[n-n_0]\right] = X(z)z^{-n_0}$
$\mathcal{F}\left[\frac{\mathrm{d}^n f(t)}{\mathrm{d}t^n}\right] = (2\pi i\omega)^n F(\omega)$	$\mathcal{L}\left[\frac{d^{n} f(t)}{dt^{n}}\right] = s^{n} L(s) - \sum_{k=0}^{n-1} s^{n-k-1} f^{(k)}(+0)$	
$\mathcal{F}\left[t^n f(t)\right] = i^n \frac{\mathrm{d}^n F(\omega)}{\mathrm{d}\omega^n}$		
$\mathcal{F}\left[f(t)*g(t)\right] = F(\omega)G(\omega)$	$\mathcal{L}\left[f(t)*g(t)\right] = L(s)G(s)$	$\mathcal{Z}\left[x[n]*y[n]\right] = X(z)Y(z)$
$\mathcal{F}\left[f(t)g(t)\right] = \frac{1}{2\pi}F(\omega) * G(\omega)$		
$\mathcal{F}\left[\delta(t) ight]=1$	$\mathcal{L}\left[\delta(t) ight]=1$	$\mathcal{Z}\left[\delta[n] ight]=1$
$\mathcal{F}\left[1 ight]=2\pi\delta(\omega)$	$\mathcal{L}\left[1 ight]=rac{1}{s}$	$\mathcal{Z}\left[1\right] = \frac{1}{1 - z^{-1}}$
$\mathcal{F}\left[t\right] = -2\pi i \frac{\delta(\omega)}{\omega}$	$\mathcal{L}\left[t ight]=rac{1}{s^2}$	$\mathcal{Z}\left[nT\right] = \frac{Tz^{-1}}{\left(1 - z^{-1}\right)^2}$
$\mathcal{F}\left[t^l\right] = 2\pi i^l \delta^{(l)}(\omega)$	$\mathcal{L}\left[t^{l} ight]=rac{l!}{s^{l+1}}$	$\mathcal{Z}\left[\left(nT\right)^{l}\right] = \left[\frac{\mathrm{d}^{l}}{\mathrm{d}s^{l}}\frac{1}{\left(1 - z^{-1}\mathrm{e}^{sT}\right)}\right]\bigg _{s=0}$
$\mathcal{F}\left[e^{i\omega_0 t}\right] = 2\pi\delta(\omega - \omega_0)$	$\mathcal{L}\left[e^{s_0 t}\right] = \frac{1}{s - s_0}$	$\mathcal{Z}\left[\mathbf{e}^{\alpha nT}\right] = \frac{1}{1 - z^{-1}\mathbf{e}^{\alpha T}}$
$\mathcal{F}\left[\sin\beta t\right] = -i\pi \left(\delta \left(\omega - \beta\right) - \delta \left(\omega + \beta\right)\right)$	$\mathcal{L}\left[\sin\beta t\right] = \frac{\beta}{s^2 + \beta^2}$	$\mathcal{Z}\left[\sin\beta nT\right] = \frac{z^{-1}\sin\beta T}{1 - 2z^{-1}\cos\beta T + z^{-2}}$
$\mathcal{F}\left[\cos\beta t\right] = \pi\left(\delta\left(\omega - \beta\right) + \delta\left(\omega + \beta\right)\right)$	$\mathcal{L}\left[\cos\beta t\right] = \frac{s}{s^2 + \beta^2}$	$\mathcal{Z}[\cos \beta nT] = \frac{1 - z^{-1}\cos \beta T}{1 - 2z^{-1}\cos \beta T + z^{-2}}$
$\mathcal{F}\left[\Pi(t/T)\right] = T\sin\frac{\omega T}{2} / \frac{\omega T}{2}$	$\mathcal{L}\left[\Pi_{T_1}^{T_2}(t)\right] = \frac{1}{s} \left(e^{-sT_1} - e^{-sT_2}\right)$	