1 Trasformate di Fourier comuni

$f(t)$	$F(\mu)$
$\cos(2\pi\mu_0 t)$	$\frac{1}{2}\left[\delta(\mu-\mu_0)+\delta(\mu+\mu_0)\right]$
$A\Pi(t/w)$	$Aw\cdot sinc(\mu w)$
$e^{j2\pi t t_0}$	$\delta(\mu-t_0)$
$f(t-t_0)$	$F(\mu)\cdot e^{-j2\pi\mu t_0}$
$f(t)\cdot e^{j2\pi\mu_0 t}$	$F(\mu-\mu_0)$
$\sum_{n=-\infty}^{+\infty}\delta(t-n\Delta T)$	$\frac{1}{\Delta T}\sum_{n=-\infty}^{+\infty}\delta(\mu-\frac{n}{\Delta T})$

2 Convoluzione

$$f*h(t)=\int_{-\infty}^{+\infty} f(\tau)h(t-\tau)d\tau$$

3 Campionamento

$$\tilde{f}(t)=f(t)\cdot\sum_{n=-\infty}^{+\infty}\delta(t-n\Delta T)$$

$$\tilde{F}(\mu)=\mu_s\sum_{n=-\infty}^{+\infty}F(\mu-\mu_s\cdot n)$$

$$f(t)=\sum_{n=-\infty}^{+\infty}f(n\Delta T)\cdot sinc\left(\frac{t-n\Delta T}{n\Delta T}\right)$$