Coppie trasformata-antitrasformata

$s(t)$	$S(f)$
$\delta(t)$	1
$\delta(t - t_0)$	$e^{-j2\pi t_0 f}$
$e^{j2\pi f_0 t}$	$\delta(f - f_0)$
$u(t)$	$\frac{1}{j2\pi f} + \frac{1}{2}\delta(f)$
$\text{sgn}(t) = \begin{cases} -1 & t < 0 \\ 0 & t = 0 \\ +1 & t > 0 \end{cases}$	$\frac{1}{j\pi f}$
$\text{rect}(t) = \begin{cases} 1 & \lvert t \rvert \leq \frac{1}{2} \\ 0 & altrove \end{cases}$	$\text{sinc}(f)$
$\text{tri}(t)$	$\text{sinc}^2(f)$
$\cos(2\pi f_0 t)$	$\frac{1}{2}\left[\delta(f + f_0) + \delta(f - f_0)\right]$
$\sin(2\pi f_0 t)$	$\frac{j}{2}\left[\delta(f + f_0) - \delta(f - f_0)\right]$
$e^{-at}u(t)$	$\frac{1}{a + j2\pi f}$
$e^{-a\lvert t \rvert}$	$\frac{2a}{a^2 + (2\pi f)^2}$
Gaussiana(t) : $e^{-\frac{t^2}{2\sigma^2}}$	Gaussiana(f) : $\sqrt{2\pi}\sigma \cdot e^{-2\pi\sigma^2 f^2}$