Tabelle

	$f(t)$ (Original)	Bildfunktion $F(w)$
1.	$\sigma(t-a) - \sigma(t-b) = \begin{cases} 1, & a \le t \le b \\ 0, & sonst \end{cases}$ $a < b$	$i \dfrac{e^{-ibw} - e^{-iaw}}{w}$
2	$\sigma(t+a) - \sigma(t-a) = \begin{cases} 1, & t \le \lvert a \rvert \\ 0, & sonst \end{cases}$	$\dfrac{2 \sin(aw)}{w}$
3	$\sigma(t+a) - \sigma(t) = \begin{cases} 1, & -a \le t \le 0 \\ 0, & sonst \end{cases}$	$i \dfrac{1 - e^{iaw}}{w}$
4	$\sigma(t) - \sigma(t-a) = \begin{cases} 1, & 0 \le t \le a \\ 0, & sonst \end{cases}$	$i \dfrac{e^{-iaw} - 1}{w}$
5	$\begin{cases} a - \lvert t \rvert, & \lvert t \rvert \le a \\ 0, & sonst \end{cases}$ 	$\dfrac{2[1 - \cos(wa)]}{w^2}$
6.	$\dfrac{1}{a^2 + t^2}$	$\dfrac{\pi}{a} e^{-a\lvert w \rvert}$
7	$\dfrac{t}{a^2 + t^2}$	$i\pi e^{-a\lvert w \rvert}$, $w < 0$ 0, $w = 0$ $-i\pi e^{-a\lvert w \rvert}$, $w > 0$

	$e^{-a\|t\|}$	$\frac{2a}{a^2+w^2}$
9	$e^{-at}\sigma(t)$	$\frac{1}{a+iw}$
10	$te^{-at}\sigma(t)$	$\frac{1}{(a+iw)^2}$
11	e^{-at^2}	$\sqrt{\frac{\pi}{a}}\, e^{-\frac{w^2}{4a}}$
12	$\frac{\sin(at)}{t}$	π, $\|w\| < a$ $\frac{\pi}{2}$, $\|w\| = a$ 0 $\|w\| > a$
13	$e^{-at}\sin(bt)\sigma(t)$	$\frac{b}{(a+iw)^2+b^2}$
14	$e^{-at}\cos(bt)\sigma(t)$	$\frac{iw}{(a+iw)^2+b^2}$
15	$\delta(t)$ Dirac-Stoß	1
16	$\delta(t+a)$	e^{iaw}
17	$\delta(t-a)$	e^{-iaw}
18	e^{iat}	$2\pi\delta(w-a)$
19	e^{-iat}	$2\pi\delta(w+a)$

)	$\cos(at)$	$\pi[\delta(w+a)+\delta(w-a)]$
21	$\sin(at)$	$i\pi[\delta(w+a)-\delta(w-a)]$
22	$\delta(t+a)+\delta(t-a)$	$2\cos(aw)$
23	$\delta(t+a)-\delta(t-a)$	$2i\sin(aw)$