

Fourier Transform Pairs

Note: Π stands for rectangular function. Λ stands for triangular function.

$x(t)$	$X(f)$
$\Pi\left(\frac{t}{\tau}\right)$	$\tau \operatorname{sinc} \pi f$
$2W \operatorname{sinc} 2Wt$	$\Pi\left(\frac{f}{2W}\right)$
$\Lambda\left(\frac{t}{\tau}\right)$	$\tau \operatorname{sinc}^2 \pi f$
$\exp(-\alpha t)u(t), \alpha > 0$	$\frac{1}{\alpha + j2\pi f}$
$t \exp(-\alpha t)u(t), \alpha > 0$	$\frac{1}{(\alpha + j2\pi f)^2}$
$\exp(-\alpha t), \alpha > 0$	$\frac{2\alpha}{\alpha^2 + (2\pi f)^2}$
$e^{-\pi(t/\tau)^2}$	$\tau e^{-\pi(f/\tau)^2}$
$\delta(t)$	1
1	$\delta(f)$
$\delta(t - t_0)$	$\exp(-j2\pi f t_0)$
$\exp(j2\pi f_0 t)$	$\delta(f - f_0)$
$\cos 2\pi f_0 t$	$\frac{1}{2}\delta(f - f_0) + \frac{1}{2}\delta(f + f_0)$
$\sin 2\pi f_0 t$	$\frac{1}{2j}\delta(f - f_0) - \frac{1}{2j}\delta(f + f_0)$

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The Fourier Transform As we have seen, any (sufficiently smooth) function $f(t)$ that is periodic can be built out of sines and cosines.

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