

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

TABLE 3.1
Short Table of Fourier Transforms

$g(t)$	$G(f)$	
1 $e^{-at}u(t)$	$\frac{1}{a + j2\pi f}$	$a > 0$
2 $e^{at}u(-t)$	$\frac{1}{a - j2\pi f}$	$a > 0$
3 $e^{-at} t $	$\frac{a^2 + (2\pi f)^2}{2a}$	$a > 0$
4 $te^{-at}u(t)$	$\frac{-1}{(a + j2\pi f)^2}$	$a > 0$
5 $t^n e^{-at}u(t)$	$\frac{n!}{(a + j2\pi f)^{n+1}}$	$a > 0$
6 $\delta(t)$	1	
7 1	$\delta(f)$	
8 $e^{j2\pi f_0 t}$	$\delta(f - f_0)$	
9 $\cos 2\pi f_0 t$	$0.5[\delta(f + f_0) + \delta(f - f_0)]$	
10 $\sin 2\pi f_0 t$	$j0.5[\delta(f + f_0) - \delta(f - f_0)]$	
11 $u(t)$	$\frac{1}{j2\pi f} + \frac{1}{2}\delta(f)$	
12 $\text{sgn } t$	$\frac{1}{j2\pi f}$	
13 $\cos 2\pi f_0 t u(t)$	$\frac{1}{2}[\delta(f - f_0) + \delta(f + f_0)] + \frac{j2\pi f}{(2\pi f_0)^2 - (2\pi f)^2}$	
14 $\sin 2\pi f_0 t u(t)$	$\frac{j}{2}[\delta(f - f_0) - \delta(f + f_0)] + \frac{2\pi f_0}{(2\pi f_0)^2 - (2\pi f)^2}$	
15 $e^{-at} \sin 2\pi f_0 t u(t)$	$\frac{2\pi f_0}{(a + j2\pi f)^2 + 4\pi^2 f_0^2}$	$a > 0$
16 $e^{-at} \cos 2\pi f_0 t u(t)$	$\frac{a + j2\pi f}{(a + j2\pi f)^2 + 4\pi^2 f_0^2}$	$a > 0$
17 $\Pi\left(\frac{t}{\tau}\right)$	$\tau \text{sinc}(\pi f \tau)$	
18 $2B \text{sinc}(2\pi Bt)$	$\Pi\left(\frac{f}{2B}\right)$	
19 $\Delta\left(\frac{t}{\tau}\right)$	$\frac{1}{2} \text{sinc}^2\left(\frac{\pi f \tau}{2}\right)$	
20 $B \text{sinc}^2(\pi Bt)$	$\Delta\left(\frac{f}{2B}\right)$	
21 $\sum_{n=-\infty}^{\infty} \delta(t - nT)$	$f_0 \sum_{n=-\infty}^{\infty} \delta(f - nf_0)$	$f_0 = \frac{1}{T}$
22 $e^{-t^2/2\sigma^2}$	$\sigma\sqrt{2\pi} e^{-2\sigma^2(\pi f)^2}$	

[Download PDF version of :](#)
Fourier Transform Questions And Solutions