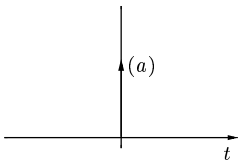
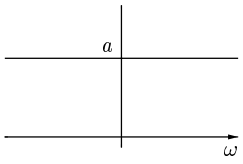
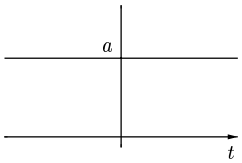
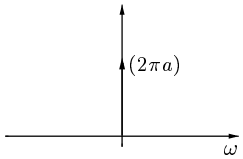
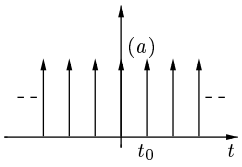
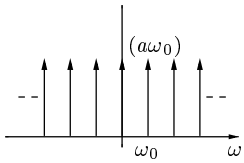
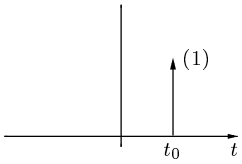
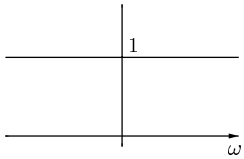
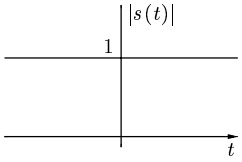
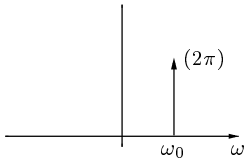
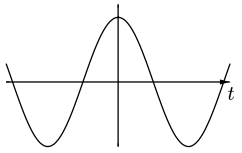
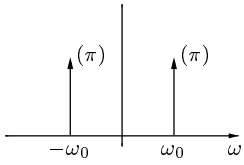
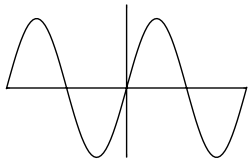
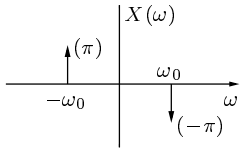
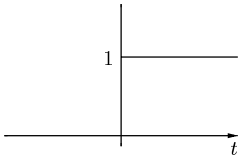
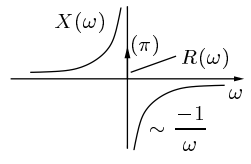
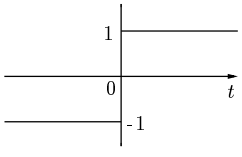
Fourier correspondences

	$s(t)$		$S(\omega)$	$\lvert S(\omega)\rvert$
9		$a\delta(t)$	a	
10		a	$2\pi a\delta(\omega)$	
11		$a \cdot \sum_{n=-\infty}^{\infty} \delta(t - nt_0)$	$\omega_0 = \frac{2\pi}{t_0}$ $a\omega_0 \sum_{n=-\infty}^{\infty} \delta(\omega - n\omega_0)$	
12		$\delta(t - t_0)$	$e^{-j\omega t_0}$	
13		$e^{j\omega_0 t}$	$2\pi\delta(\omega - \omega_0)$	
14		$\cos(\omega_0 t)$	$\pi\delta(\omega - \omega_0) + \pi\delta(\omega + \omega_0)$	
15		$\sin(\omega_0 t)$	$j\pi\delta(\omega + \omega_0) -$ $j\pi\delta(\omega - \omega_0)$	
16		$\varepsilon(t)$ $\varepsilon(0) \stackrel{!}{=} \frac{1}{2}$	$\frac{1}{j\omega} + \pi\delta(\omega)$	
17		$sign(t)$	$\frac{2}{j\omega}$