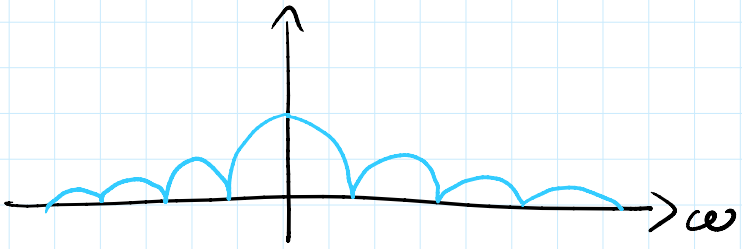
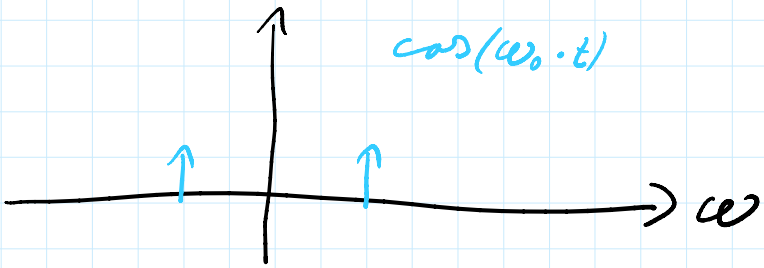
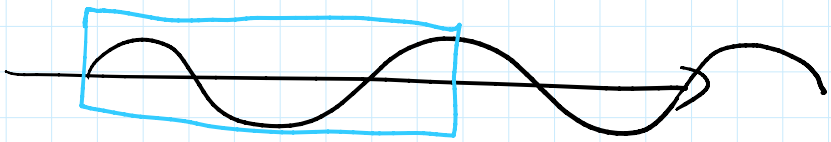
Einheit 19

Mittwoch, 26. November 2025 19:59

$si(x) = \frac{\sin(x)}{x}$



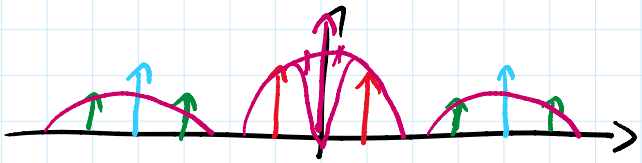


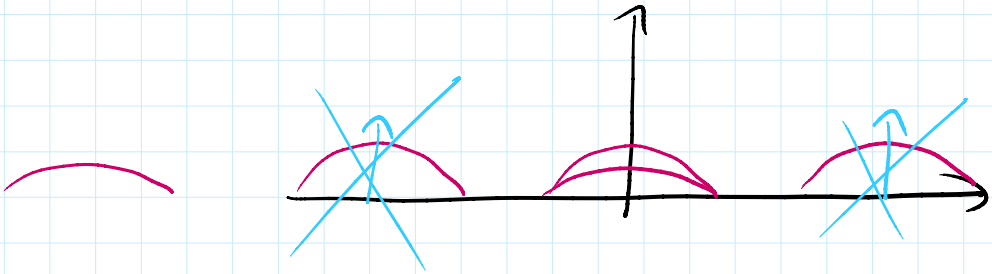


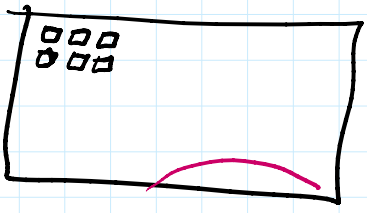
13.

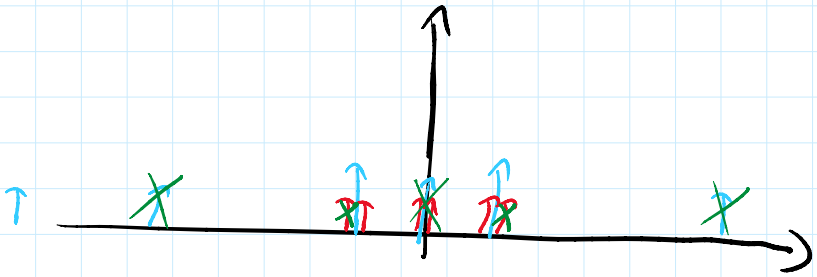
$(K + \cos(5t)) \cdot \cos(20t)$ rechteck (20t)

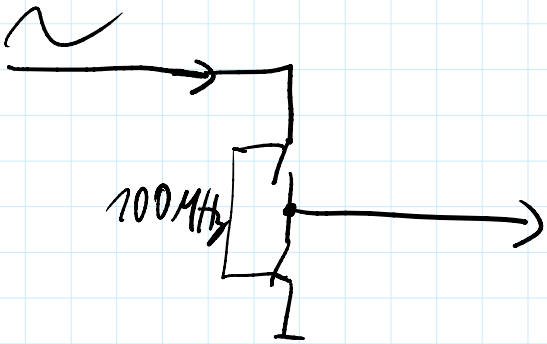
$\cos(\omega_0 t)$	$\pi[\delta(\omega+\omega_0)+\delta(\omega-\omega_0)]$	
Multiplikation	$x_1(t) \cdot x_2(t)$	$\frac{1}{2\pi} X_1(j\omega) * X_2(j\omega)$

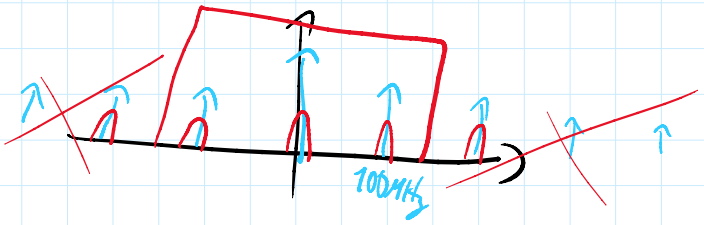












$s(t) \cdot \cos(\omega_0 t)$

$\downarrow$

$$\left(s(t) + \cos(\omega_0 t)\right)^2 = s^2(t) + 2 \cdot s(t)\cos(\omega_0 t) + \cos^2(\omega_0 t)$$

$$e^{s(t)+\dots} = e^{s(t)} \cdot e^{\cos(\dots)}$$