

RARROPPOPO 7.3. Moestre que cos(wot+0) = # (8(w-wo)e +8(w-wo)e) podemes ver al coseno come: $c\omega(\omega_0 + + \Theta) = \frac{1}{2} \left(e^{j(\omega_0 + \Theta)} - j(\omega_0 + \Theta) \right)$ asi. latransformate de fourie $\frac{1}{2}\int e^{j(w_0+i\theta)}-j(w_0+i\theta)-j$ sabenies que. ejwo+ => zn 8(w-wo) $\int e^{j\omega_0 t} - j\omega t$ $= 2\pi \delta(\omega - \omega e)$ =jwot =7 2Th (8 (W+WO)) Je e dt = 2Ti Sturuo) $= \frac{1}{2\pi} \left(\frac{5(w-w_0)C+\delta(w+w_0)C}{5(w+w_0)C} - \frac{10}{2\pi} \right) = \frac{1}{2\pi} \left(\frac{5(w-w_0)C+\delta(w+w_0)C}{5(w+w_0)C} - \frac{10}{2\pi} \right)$ (US (Wot +0) => TT S(W-WO) & T S(W+WO) & TO

