[PS08]

Ruby S.

note to Ry: there are far too many pictures in this poset to bother with latex. sorry:

(I) × (t) × (w)

$$P(t) = \sum_{s} \delta(t - kT_s) \quad \text{for } k = \mathbb{Z}$$

$$(1)$$

$$(1)$$

$$(1)$$

$$(1)$$

$$(2T_s - T_s) \quad T_s \quad 2T_s$$

also xp(t) = x(t) p(t)

 $\begin{array}{c} \times_{P} (t) \\ \times_{P} (t) \\ \end{array} \begin{array}{c} \times_{P} (t) \\ \times_{P} (X(X(X(T_{S})))) \end{array} \begin{array}{c} \text{For } K = \mathbb{Z}_{A} \\ \times_{P} (T_{S}) \end{array} \begin{array}{c} \times_{P} (T_{S}) \\ \times_{P} (T_{S}) \end{array} \begin{array}{c$

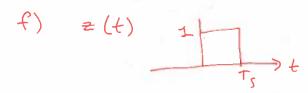
P(w) = $\frac{2\pi}{T_5} \sum_{\infty}^{\infty} \delta\left(\frac{t-2\pi k}{T_5}\right) for k = 2$

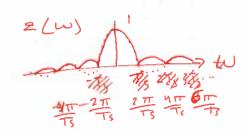
 $\begin{array}{c} \times p(\omega) \\ \times p(\omega) \\ \end{array} \begin{array}{c} 2\overline{T_5} - \omega_M \\ \times asssuming \\ \overline{T_5} > \omega_M \\ \end{array} \begin{array}{c} \overline{T_5} > \omega_M \\ \overline{T_5} > \omega_M \\ \end{array} \begin{array}{c} \overline{T_5} > \omega_M \\ \overline{T_5} > \omega_M \end{array}$

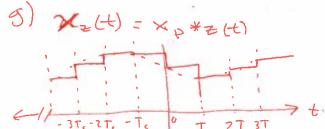
there must be no overlap of the signal copies, so 2TT > 2WM -A TS < TIM

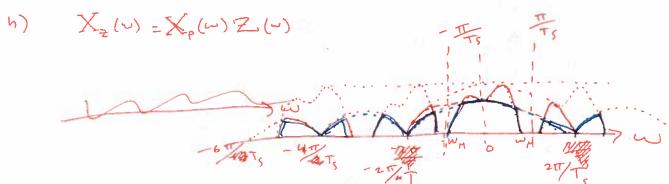
e) you can recover the original signal by filtering out all but the ways centered at t=0 with a low-pass filter where the cuttoff # fc -> WM < fc (2T)-WM

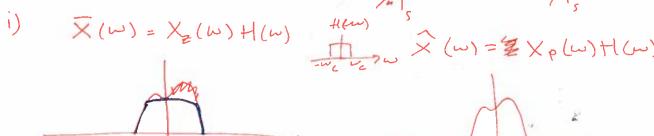
1





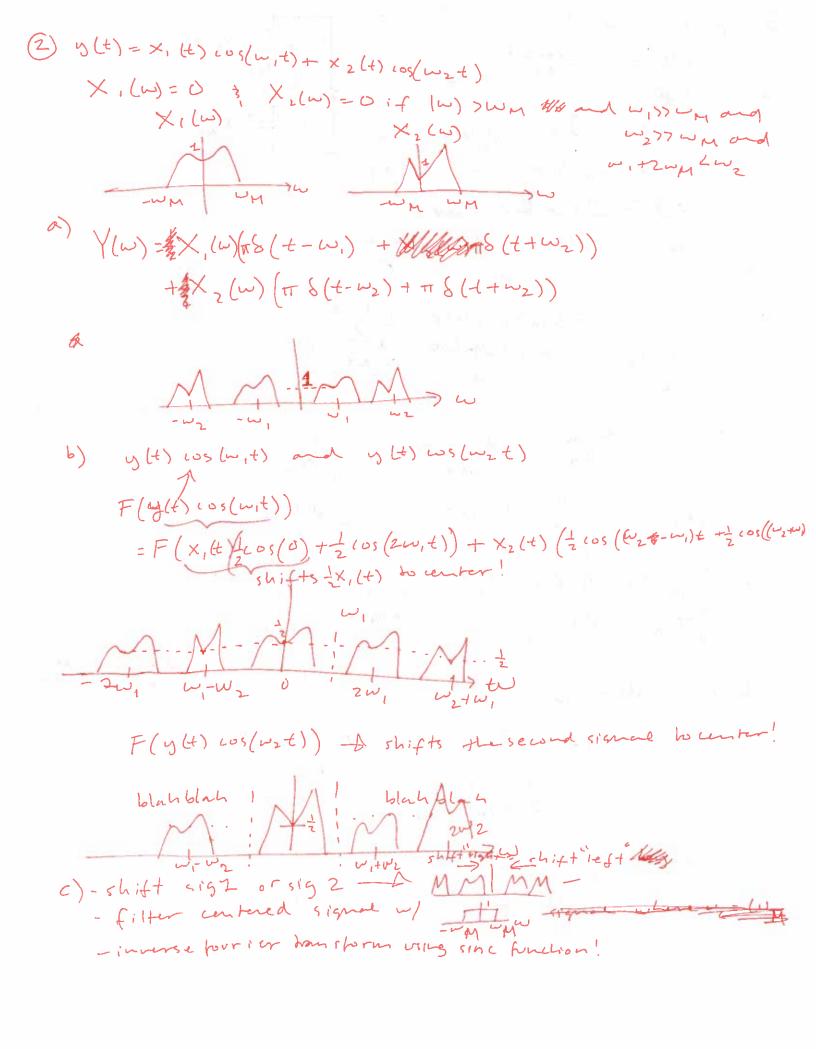






i) X (w) and X (w) have different amplitudes at lower prequencies.

$$\frac{\Sigma(\overline{+}_{i})}{\hat{\chi}(\overline{+}_{i})} = 1$$



 $(R(SW)^{2}+(LCw^{2}-1)^{2}=0$ $R^{2}(^{2}w^{2}+L^{2}(^{2}w^{4}-2LCw^{2}+1=0)$ $(L^{2}c^{2})w^{4}+(R^{2}c^{2}-2LC)w^{2}+1=0$ whatever, its where we the dimominator = $\frac{b}{c}$ $\frac{b}{c}$ $\frac{a}{c}$