1)
$$\times (t) = \sum_{\kappa} \times_{\circ} (t - \kappa \tau_{\circ})$$

$$X_{o}(t) = \text{west}\left(\frac{t}{70/5}\right)$$

$$X_{o}(f) = \frac{T_{o}}{5} ainc \left(\frac{T_{o}}{5}f\right)$$

$$X_n = \frac{1}{T_0} \sum_{n=1}^{\infty} X_n \left(\frac{n}{T_0} \right) = \frac{1}{5} \text{ sinc } \left(\frac{n}{B} \right)$$

$$X(f) = \sum_{n} X_{n} S(f-\frac{n}{r_{0}})$$

$$h(t) = \frac{4}{T_0} \text{ pinc} \left(\frac{2}{T_0}t\right) \cos \left(\frac{3\pi t}{T_0}\right) = \frac{4}{T_0} \text{ pinc} \left(\frac{2}{T_0}t\right) \cos \left(\frac{2\pi t}{2T_0}\right)$$

$$H(f) = \operatorname{rect}\left(\frac{\tau_{0}}{2}f\right) \otimes \left[S(f-f_{0}) + S(f+f_{0})\right] = \int_{0}^{\infty} \left[S(f-f_{0}$$

$$y(f) = \frac{1}{5} \text{ sinc } \left(\frac{2}{5}\right) \left[S(f-\frac{2}{70}) + S(f+\frac{2}{70})\right] + \frac{1}{5} \text{ sinc } \left(\frac{3}{5}\right) \left[S(f-\frac{3}{70}) + S(f+\frac{3}{70})\right]$$

$$Y(t) = \frac{2}{5} \operatorname{sinc} \left(\frac{2}{5}\right) \cos \left(2\pi t \frac{2}{70}\right) + \frac{2}{5} \operatorname{sinc} \left(\frac{3}{5}\right) \cos \left(2\pi t \frac{3}{70}\right)$$

$$\overline{Y}(P) = \frac{2}{T_0} \sum_{K} Y(P - \frac{2}{T_0}K)$$

$$P(P) = rect \left(\frac{T_0}{3}P\right)$$

$$Z(\ell) = P(\ell) \overline{Y}(\ell) = \frac{4}{70} \operatorname{sinc}(\frac{2}{5}) \delta(\ell) + \frac{4}{70} \operatorname{sinc}(\frac{2}{5}) \left[\delta(\ell-\frac{1}{5}) + \delta(\ell+\frac{1}{5})\right]$$

$$2(t) = \frac{4}{70} \text{ sinc } \left(\frac{2}{5}\right) + \frac{2}{70} \text{ sinc } \left(\frac{3}{5}\right) \cos \left(2\pi t \cdot \frac{1}{70}\right)$$

perche e un segnola periodico

$$= \left(\frac{4}{\text{To}} \text{ pinc } \left(\frac{2}{5}\right)\right)^2 + 2 \cdot \left(\frac{4}{\text{To}} \text{ pinc } \left(\frac{3}{5}\right)\right)^2$$