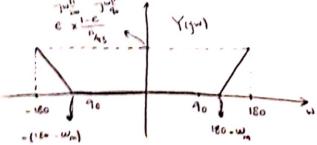
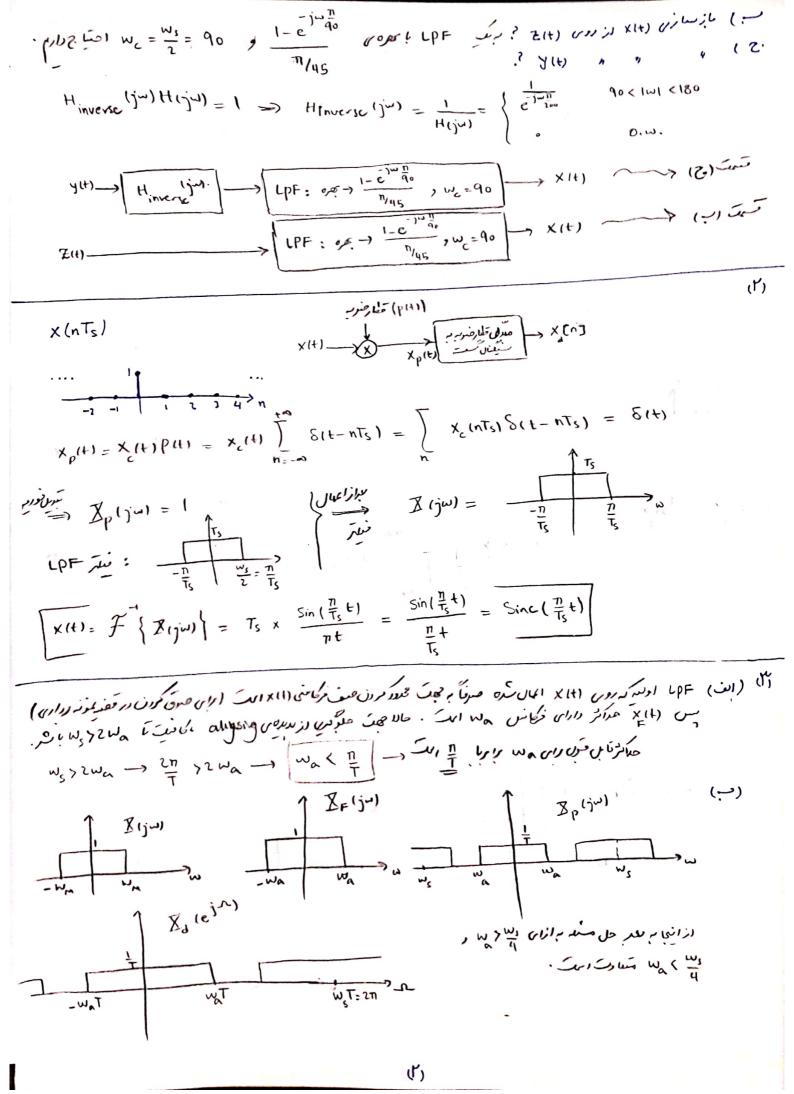
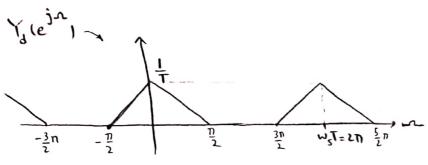


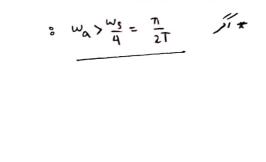
180 >2 mm = m <90

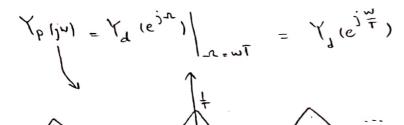
שי ניען (וין) אי ניינין וין אין איינין וין איינין פיט zmahn) => Yjune Z (ju) H (ju)

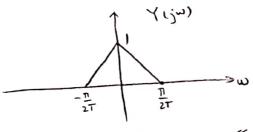


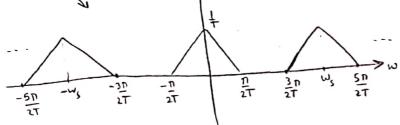


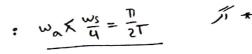


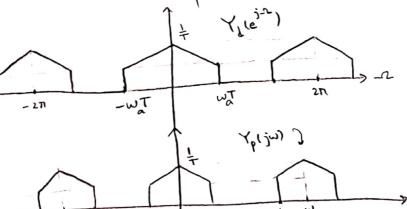


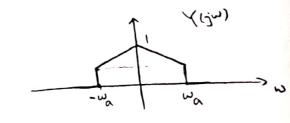


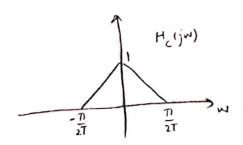








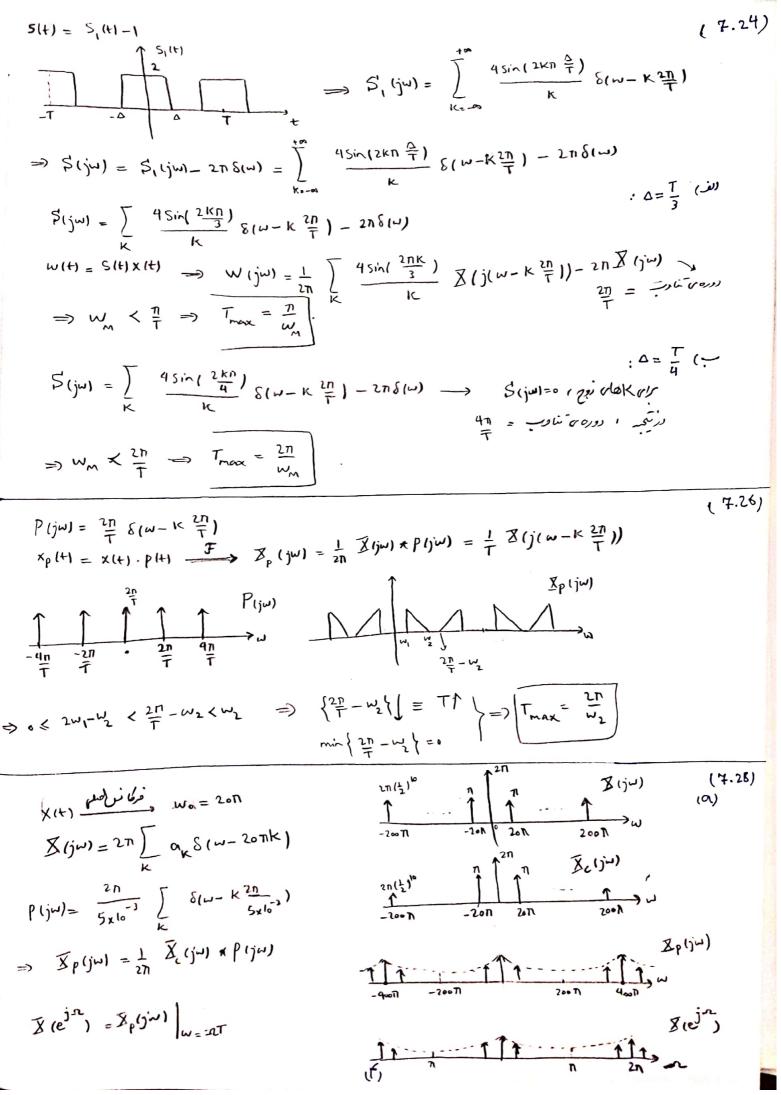




$$H_{c}(jw) = ?$$
 (ح.)

 $w_{a} > \frac{w_{b}}{4} = \frac{n}{2T}$ (خیا)

:
$$w_{\alpha} < \frac{w_{s}}{4} = \frac{n}{2\Gamma}$$
 (



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$$\alpha_{k} = \begin{cases} \frac{2n}{T} \left(\frac{1}{2}\right)^{K} & ; K=0,\pm 1, ---, \pm 9 \\ \frac{4n}{T} \left(\frac{1}{2}\right)^{K} & ; K=10 \end{cases}$$

$$P(t) = P_{1}(t) + P_{1}(t-\Delta) \quad ; P_{1}(t) = \sum_{k} \left\{ (t-\frac{kn}{w}) \right\}$$

$$\Rightarrow P(jw) = (1+e^{-j\Delta w}) P_{1}(jw) \quad ; P_{1}(jw) = W \sum_{k} \{(w-kW)\}$$

$$g(t) = p(t).F(t) = P_{1}(t).F(t) + P_{1}(t+\Delta).F(t)$$

$$= \alpha P_{1}(t) + P_{1}(t+\Delta) - \frac{1}{2}(t+\Delta)$$

$$\Rightarrow G(jw) = W \sum_{k} (\alpha + be^{-jk\Delta w}) S(w-kW)$$

$$y_{1}(t) = X(t) P(t) F(t) \Rightarrow Y_{1}(jw) = \frac{1}{2n} \left\{ (jw) X^{2}(jw) + (k+be^{-j\Delta w}) X^{2}(j(w-W)) \right\}$$

$$\therefore V_{1}(jw) = \frac{W}{2n} \sum_{k} (\alpha + b) X^{2}(jw) + (k+be^{-j\Delta w}) X^{2}(j(w-W))$$

$$V_{2}(jw) = Y_{1}(jw) H_{1}(jw)$$

$$V_{2}(jw) = Y_{1}(jw) H_{1}(jw)$$

$$V_{3}(t) = \frac{W}{2n} \left[(a+b) X^{2}(jw) + (n+be^{-j\Delta w}) X^{2}(j(w-W)) \right]$$

$$V_{3}(t) = X(t) P(t)$$

$$V_{3}(jw) = \frac{W}{2n} \left[2X(jw) + (1+e^{-j\Delta w}) X^{2}(j(w-W)) \right]$$

$$V_{2}(w) = \frac{W}{2n} \left[(2+j\alpha+jb) X_{1}(jw) \right] + \frac{W}{2n} \left[(1+e^{-j\Delta w}) X^{2}(j(w-W)) \right]$$

$$V_{3}(t) = \frac{W}{2n} \left[(2+j\alpha+jb) X_{1}(jw) \right] + \frac{W}{2n} \left[(1+e^{-j\Delta w}) X^{2}(j(w-W)) \right]$$

$$V_{4}(w) = \frac{W}{2n} \left[(2+j\alpha+jb) X_{1}(jw) \right] + \frac{W}{2n} \left[(1+e^{-j\Delta w}) X^{2}(j(w-W)) \right]$$

$$V_{4}(w) = \frac{W}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) + \frac{1}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) \right] , b = -\frac{1}{2+(a+(wa))} , wa \neq \frac{\pi}{2}$$

$$V_{4}(w) = \frac{W}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) + \frac{1}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) \right] , b = -\frac{1}{2+(a+(wa))} , wa \neq \frac{\pi}{2}$$

$$V_{4}(w) = \frac{W}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) + \frac{1}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) \right] , b = -\frac{1}{2+(a+(wa))} , wa \neq \frac{\pi}{2}$$

$$V_{4}(w) = \frac{W}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) + \frac{1}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) + \frac{1}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) \right] \right]$$

$$V_{5}(w) = \frac{W}{2n} \left[\frac{1}{2+j\alpha+jb} X_{1}(w) + \frac{1}{2n} \left[$$