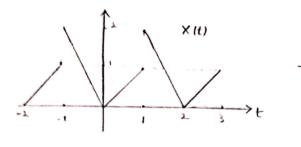
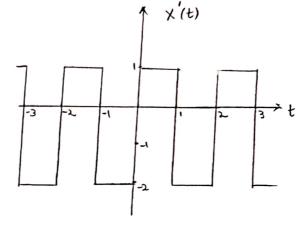
$T = 3 \quad DC = -2 \quad , \quad \alpha_{2} = \alpha_{-1}^{*} = e \quad , \quad \alpha_{1} = \alpha_{1}^{*} = -1$ $x(t) = \int_{K_{2}}^{+\infty} A_{K} \cos(k\omega_{0}t) - B_{K} \sin(k\omega_{0}t)$ $\omega_{0} = \frac{2\pi}{T} = \frac{2\pi}{3} \quad , \quad \alpha_{1} = -2, \quad \alpha_{1} = -1 \quad , \quad \alpha_{2} = e^{-\frac{1}{3}} = -\frac{1}{3}, \quad \alpha_{1} = -\frac{1}{3}$ $\Rightarrow x(t) = \int_{K_{2} - \infty}^{+\infty} a_{K} e^{jk\omega_{0}t} e^{-j\frac{2\pi}{3}t} e^{-j\frac{2\pi}{3}t} e^{-j\frac{4\pi}{3}t} + je^{-j\frac{4\pi}{3}t}$ $\Rightarrow x(t) = -2 - 2Cos(\frac{2\pi}{3}t) - jx2jsin(\frac{4\pi}{3}t) = -2Cos(0) - 2Cos(\frac{2\pi}{3}nt) + 2sin(\frac{4\pi}{3}t)$ $\Rightarrow A_{0} = -2, \quad A_{1} = -2, \quad B_{2} = -2, \quad \omega_{0} = \frac{2\pi}{3}, \quad \omega_{0} =$

$$X(t) = \begin{cases} t & o(t < 1) \\ -\lambda t & -1 \le t < 0 \end{cases}$$





$$S(t) = \frac{1}{2} \int_{-1}^{\infty} S(t) = \frac{1}{2} \int$$

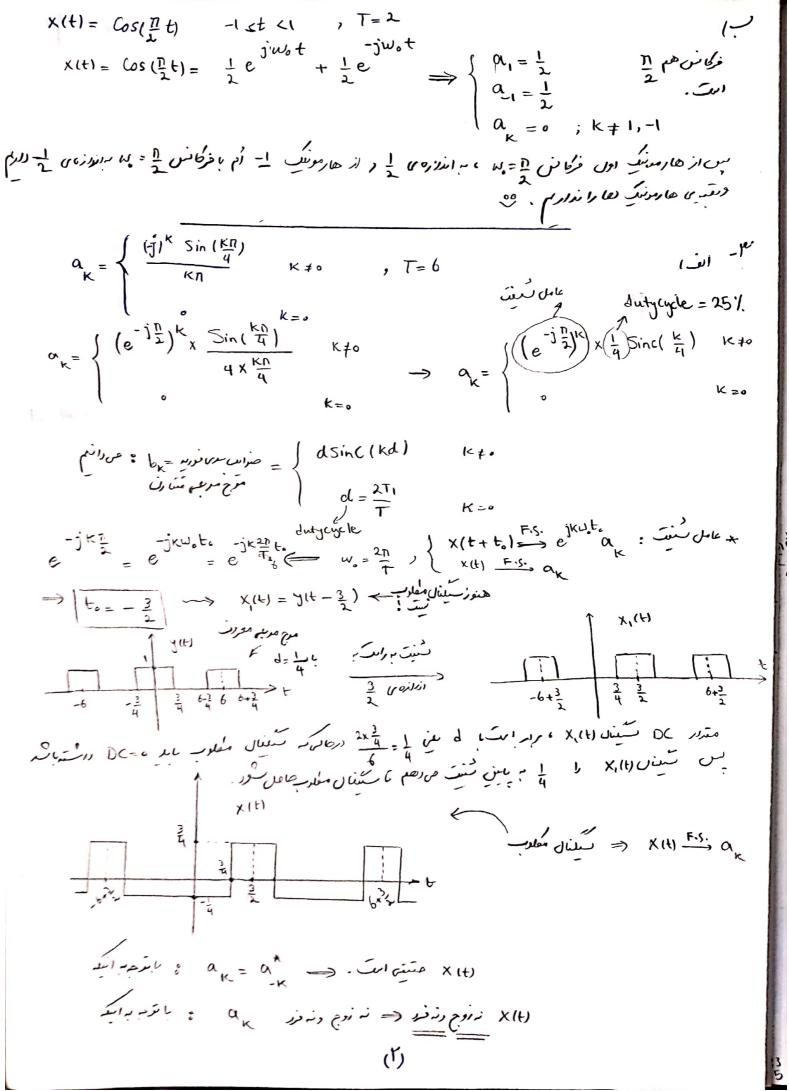
$$S(t) \xrightarrow{E.S.} c_{\kappa} = dSinc(\kappa d)$$

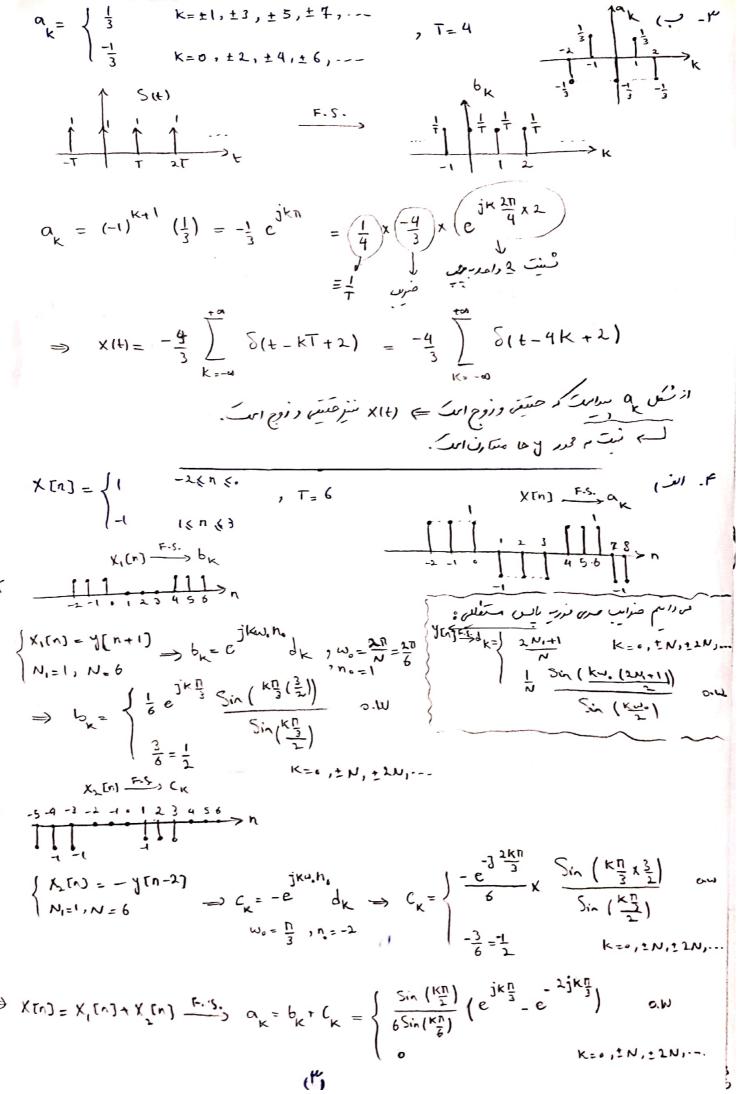
$$d = dutycycle = \frac{2T_1}{T}, \lim_{x \to \infty} Sinc(x) = 1$$

$$x(t) = 3S(t + \frac{1}{2}) - 2 \xrightarrow{F.S.} b_{k} = 3e^{\frac{1}{2}j\kappa\omega}$$
 $k = 3C_{0} - 2 = \frac{2\pi j \sin \frac{1}{2}}{m^{2}} = \frac{1}{2}$

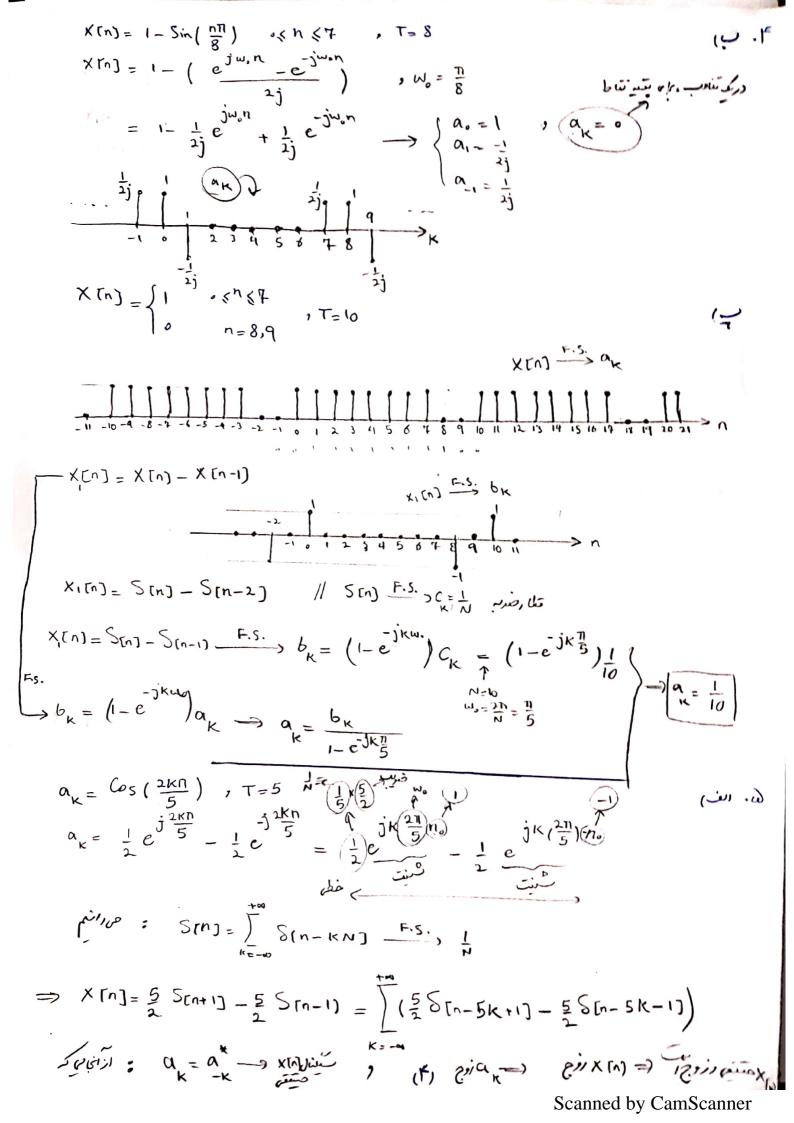
$$\frac{1}{1} \left\{ b_{k} = \frac{3e}{2} \frac{j k \frac{\pi}{2}}{2} \text{ Sinc } (k_{2}) \right\} = \frac{1}{2}$$

$$x(t) \xrightarrow{Fis} a_{K} \Rightarrow j_{K} = \begin{cases} 3e^{-\frac{1}{2} \sin e(\frac{kx}{x})} \\ \frac{3e^{-\frac{1}{2} \sin e(\frac{kx}{x})}}{2j_{K} \pi} \\ \frac{3e^{$$





Scanned by CamScanner



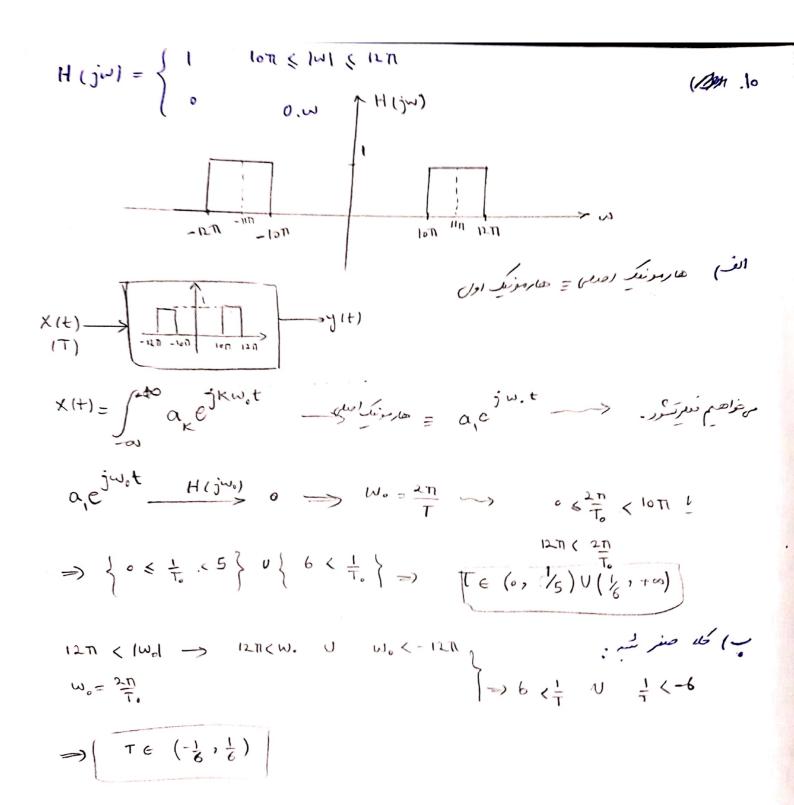
$$Q_{K} = \begin{cases} (1 - e^{-2iK_{1}}) & 2^{-1K_{1}} & -3 \le k \le 3 \\ e^{-2iK_{1}} & -3 \le k \le 3 \end{cases}, \quad 7 = 8 \end{cases}$$

$$k_{E} = \begin{cases} 2^{-1K_{1}} & -3 \le k \le 3 \\ e^{-2iK_{1}} & -3 \le k \le 3 \end{cases}, \quad 7 = 8 \end{cases}$$

$$k_{E} = \begin{cases} 2^{-1K_{1}} & -3 \le k \le 3 \\ e^{-2iK_{1}} & -3 \le k \le 3 \end{cases}$$

$$= 1 + 2^{-1} (e^{-2iK_{1}} + e^{-2iK_{1}} + e^{2iK_{1}} + e^{-2iK_{1}} + e^$$

$$\begin{array}{c} x(t) & \sum_{i=1}^{N(t)} a_{i} \\ y(t) & \sum_{i=1}^{N(t)} a_{i} \\ y(t) & \sum_{i=1}^{N(t)} b_{i} \\$$



$$\hat{\alpha}_{K} = \frac{1}{N} \sum_{n=1}^{N-1} \chi(n-n) e$$

$$= \frac{1}{N} e^{-jK} \left(\frac{2n}{2n} \right) n_{0} \sum_{n=1}^{N-1} \chi(n) e$$

$$= \frac{1}{N} e^{-jK} \left(\frac{2n}{2n} \right) n_{0} \sum_{n=1}^{N-1} \chi(n) e$$

$$= e$$

$$\hat{\alpha}_{K} = \alpha_{K} \left(1 - e^{-jKn} \right) \sum_{n=1}^{N-1} \chi(n) e$$

$$\hat{\alpha}_{K} = \alpha_{K} \left(1 - e^{-jKn} \right) \sum_{n=1}^{N-1} \chi(n) e$$

$$\hat{\alpha}_{K} = \frac{2}{N} \sum_{n=1}^{N-1} \left(\frac{2n}{N} \right) n + \sum_{n=1}^{N-1} \chi(n) e$$

$$\hat{\alpha}_{K} = \frac{2}{N} \sum_{n=1}^{N-1} \chi(n) e$$

$$\hat{\alpha}_{K} = \frac{1}{N} \sum_{n=1}^{N} \sum_{n=1}^{N-1} \chi(n) e$$

$$\hat{\alpha}_{K} = \frac{1}{N} \sum_{n=1}^{N} \sum_{n=1}^{N} \sum_{n=1}^{N-1} \chi(n) e$$