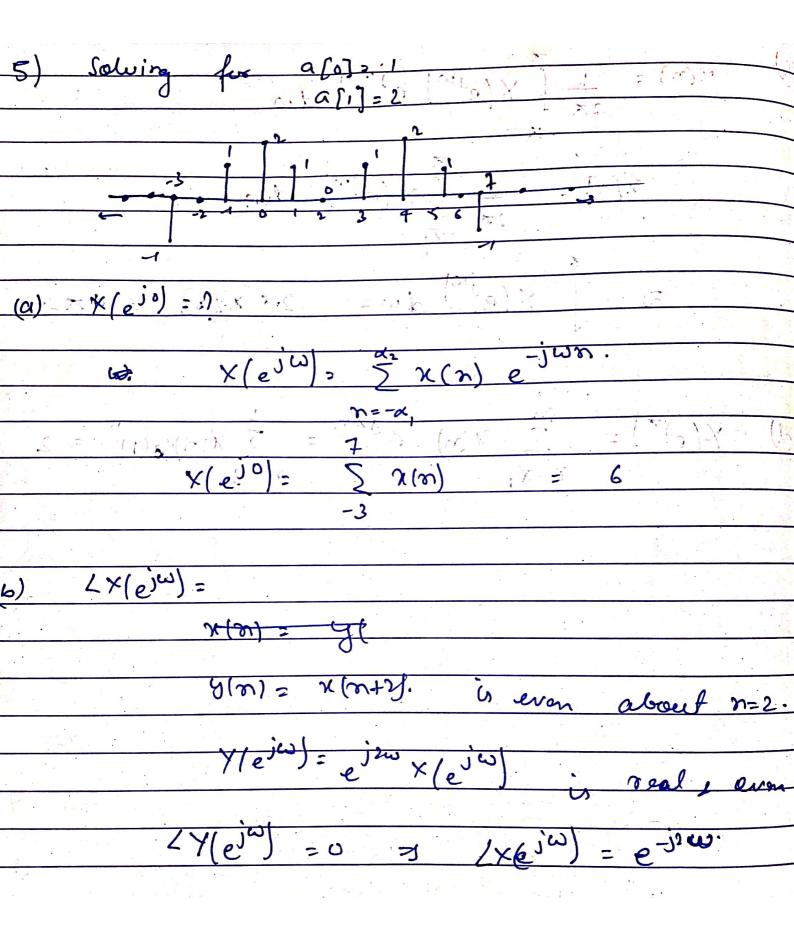
Find fourier transform of se(n-a(o) + ( [n+a(o) 2 cos (a(o) n)  $\frac{y(n) - 1}{a(a)} = \frac{y(n-1) - 1}{a(a)} = \frac{x(n)}{a(a)}$ a[9] = 6 1)  $= \frac{1}{2} \left[ \frac{1 - 1e^{-j\omega} - 1e^{-2j\omega}}{6} \right] = \frac{1}{2} \left[ \frac{1} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}{2} \left[ \frac{1}$  $= \frac{1}{1 - 1 - j\omega} = \frac{1}{6 + j\omega}$  $=\frac{1-1e^{-j\omega}}{1-1e^{-j\omega}}\left(\frac{1+1-j\omega}{3}\right)$  $h(n) = \frac{3}{5}(\frac{1}{2})^{n}u(n) + \frac{2}{7}(\frac{1}{3})^{n}u(n)$ 

Signal is periodic a,= a, a,= a, a,=a,? Also since signal is real godd, F.S coff are will be purely imaginary. 7 a = 0 , a = -a , a = -a , a = -a , a = -a = a = -a(0); a== - a[1]j  $a_{-3} = -a[2]_{j}$ Oppenheium Bask Refer Example 9.33



$$\frac{1}{2\pi} \left[ \frac{\chi(e^{j\omega})}{\chi(e^{j\omega})} e^{j\omega n} d\omega \right]$$

$$\frac{\chi(e^{j\omega})}{2\pi} = \frac{1}{2\pi} \frac{\chi(e^{j\omega})}{\chi(e^{j\omega})} d\omega = 2\pi \chi(e^{j\omega}) = 4\pi$$

$$\frac{\chi(e^{j\omega})}{\chi(e^{j\omega})} d\omega = 2\pi \chi(e^{j\omega}) = 2\pi \chi(e^{j\omega}) = 2\pi \chi(e^{j\omega})$$

$$\frac{\chi(e^{j\omega})}{\chi(e^{j\omega})} = \frac{1}{2\pi} \frac{\chi(e^{j\omega})}{\chi(e^{j\omega})} = \frac{1}{2\pi} \frac{\chi(e^{j\omega})}{\chi(e^{j\omega$$