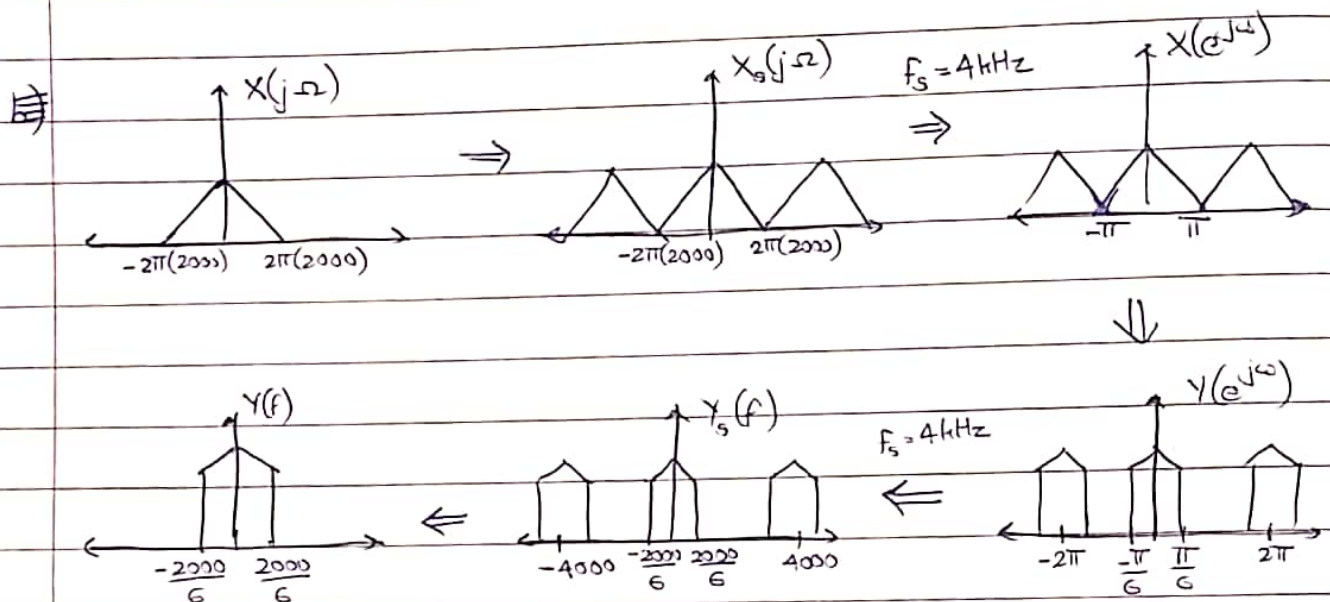


## TUTORIAL 4

Q2 a) (Sampling frequency)<sub>min</sub> = 4 kHz  
 $T_{\max} = \frac{1}{4000}$



For ideal LPF  $H_r(j\Omega)$ , maximum possible  $\Omega_c = 2\pi\left(4000 - \frac{2000}{3}\right)$   
 $= 2\pi\left(\frac{10000}{3}\right)$