Thus with N=1000, the index 8/2 D= 150 corresponding to f= 3000 Hz For h = 800, we need to be care ful. Because X (esw) is periodic, × (ejw) = × (ej(w+21)) p= 800 corresponds to the gre guency  $w_{k} = \frac{2\pi}{N} = \frac{2\pi}{N} (k - N) = -200 \frac{2\pi}{N}$ with N = 1000 this is wh = -0.4 To In analog frequents corresponds to 1/2-8000 Or gp = -4000 Hz.

The spacing between spectral samples is  $\Delta \mathcal{L} = \frac{20.000}{N} = \frac{20000}{N} = 20H$