Marganteren Und Jaborator 2 333 AC 1911 Tema 1 a) X[n]= e gwon, yn Fo, N-1 Aratost in TF a numoider are monitore expresse  $\times (\omega) = \frac{2}{2} - \frac{\gamma(\omega - \omega_0)N/2}{2} \frac{mn \frac{(\omega - \omega_0)N}{2}}{mn \frac{(\omega - \omega_0)}{2}} + \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$ Sol: Transformata Formier et x eto  $TF = X(w) = \sum_{n=0}^{N-1} x[n] \cdot e^{-ywn} = \sum_{n=0}^{N-1} e^{ywon} \cdot e^{-ywn}$  $=\underbrace{\sum_{n=0}^{N-1} e^{-g(\omega n - \omega_0 n)}}_{N-1} = \underbrace{\sum_{n=0}^{N-1} e^{-gn(\omega - \omega_0)}}_{N-1}$ lentin monghitate w-wo not se  $TF = \sum_{n=0}^{N-1} e^{-nn} = \frac{2n^{N-1}}{2n^{N} - 2n^{N-1}} = \frac{2n^{N-1}}{2n^{N} - 2n^{N-1}} = \frac{2n^{N-1}}{2n^{N-1}}$  $= \frac{2^{2} N(N-1)}{2^{2} N(N-1)} = \frac{2^{2} N(N-1)}{2^{2} N(N-$ = 22 (1 - 2 - JAN) 22x (1-2-22) => TF = 1-2-22N