Morrone Schmeider Gordoso 17102515 Simol 1) b) x(t) = 2 sime (2t) + sime(t) primaina porte -> 2 sinc (2t) => (et) segmola porte -> simc(t) <= > ret b) x(t) = sim(t). cas (t/2) ]T([S(W+1) - S(W-1)] \* 1 T([S(W+1/2) + S(W+1/2)] S(W+1-1/2)+S(W+1+1/2)-S(W-1-1/2)-S(W-1+1/2)x(t) = (sim(2TE)+1)e-1t1 Simol 3 e 3 2 11 - e - 3 2110 x(b)= 21 S(W+21)-21 E(W-21) \*1.2 24 12+w2

(tilibra)

 $\times (jw) = \frac{1}{2}$ 12+ (W+21) 12+ (W-211)2 d) WD = 2000/5 Simol 1 Wms = 4000/3 4= 21 - Com for 2 fo= 1 => fo= 1 QIT >> Com 2.fs 5 ima Wm= = WM = 2TT = 2T -> NyQuist QT. 1 Wam =

**(tilibra)**