26/4/2012  $1-n(t)=-1+2con(2\pi 4t-\pi/4)$ Y(+) = x(+) - 4 sin (21110t) = =-1+2co (214t-1/4)-4cos (21110t-1/2) =-1+2cn(2114t-1/4)+4cn(21110t+1/2) a) Tx = 1 = 0,25 h e) dy=mdc 24,107=248 Y = 1 e / T Y3=4-3=44=4-4=0145=218

26/4/2012  $\begin{cases} 2, & k=0, k=2, k=-2 \\ 5e^{17/3}, & k=5 \end{cases}$ | 5 = 1 1/3 | K = - 5 40 = 10Hz Y(+) = 5 ed(+11/3) + 5 e (211(10) 5 t + 11/3) + +2e  $+2^{2\pi(10)}2t$  +2== 10 eos (211(10) st+1/3) + 4 eos (211(10)2t) + 2 =2+4cm(21120t)+10cm(21150t+1/3) e) Py = 5|1/x|2 = 2+2+2+5+52=62 W 5- natabola tem- ne  $T_0 = 0.025$   $T_0 = 0.1 \quad f_0 = 10$  $Z_{K} = \frac{2 \times 0.025}{0.1} \text{ sinc} \left( K \frac{2 \times 0.025}{0.1} \right) = 0.5 \text{ sine} \left( 0.5 k \right)$ Z1=0,5 binc(0.5)=0,318, 2=0, 23 =- 0.106 = 0.106 e ST, 24 =0, 25 = 0.0637, 26=0