Esaure 18/09/08 Esercitio 1 $x_o(t) = \frac{t}{\tau}$ iect $\left(\frac{t}{\tau}\right)$; $\tau = T$ X(t)= = xo(t = nT) 又(8)= = 至 又(中)8(8- 带) Y(8)= sinc(82) - cos(2008=) $X_{o}(8) = \frac{Y(8)}{j7778} + \frac{Y(0)}{Z} S(8) = \frac{\sin((87) - \cos(2778)^{\frac{2}{2}})}{j2778}$ $X(8) = 4 - \sin((97))$ Px= 二 (+) 12 olt ージャンジョーニーン (t) が一 -T 2. 73 1 - TI Eseratio 2 ET = PSTT = 5 SST(1) &TT = 557 = E 3 2 i 3 161(8)12, E 3 21 $E\{2i^{2}\}^{2} = \sum_{k=0}^{\infty} m_{k}^{2} p_{k} = (-1)^{2} \cdot \frac{1}{2} + 1^{2} \cdot \frac{1}{2} = 1$ =) $S_{57} = \frac{16 + (8)^{2}}{7!} = \frac{\sqrt{7}}{7!} = \frac{7}}{7!} = \frac{\sqrt{7}}{7!} = \frac{7}}{7!} = \frac{\sqrt{7}}{7!} = \frac{\sqrt{7}}{7!} = \frac{7}}{7!} = \frac{\sqrt{7}}{7!} = \frac{\sqrt{7}}{7!} = \frac{7}}{7!} = \frac{\sqrt{7}}{7!} = \frac{7}}{7!} = \frac{7}}{7!} = \frac$ ET= (10 of (1) of .T = T. = 1 n(t)={w(t).2cos(no got)}@gr(t), n(t)= x(t)@gr(t) Pri = 5 Sinc (8) of ; Sinc (8) = Size (8) GR (8) $S\tilde{w}(8) = \begin{cases} 4.5\tilde{w}(8+80) & 8 \ge -8 \\ 9 & \text{otherwise} \end{cases} = 2No \text{ tri}\left(\frac{8}{2B}\right), S\tilde{w}_{e} = \frac{S\tilde{w}(8) + S\tilde{w}(-8)}{4} \ge No \text{ tri}\left(\frac{8}{2B}\right)$ Sac (8) = No (1-181) rect (3). Trect (4) = TNo (1-181) rect (18) Proc = 100 TNo (1-181) red (18) of - TNO B

$$\begin{aligned} &\mathcal{E} R = \frac{P(e)}{2} = P(e) \\ &\mathcal{E}(t) = \tilde{y}(t) \otimes g_R(t) = Re \left\{ \tilde{Y}(t) \right\} \otimes g_R(t) \\ &g(t) = g_{re}(t) \otimes g_R(t) \Rightarrow g_r(t) \otimes g_R(t) \\ &g(t) = sinc(t \frac{1}{r}) \\ &g(t) = s$$

BER = Q (TIUOB)