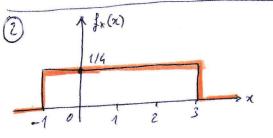
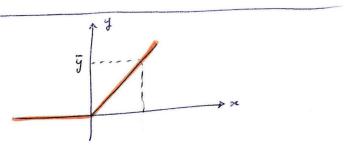


$$P\{G_{0}R\} = P\{G_{0}R\} = 1 - P\{G_{0}R\} = 0.84$$

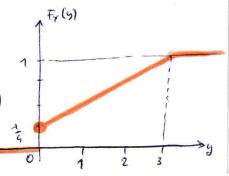
 $P\{G_{0}R\} = P\{G\} + P\{R\} - P\{G_{0}R\} = 0.1 + 0.07 - 0.01 = 0.16$





$$y = 0$$
: $F_{y}(0) = \int_{-\infty}^{0} f_{x}(x) dx = \int_{-1}^{1} \frac{1}{4} dx = \frac{1}{4}$

$$0 < y < 3: F_{y}(y) = \int_{-\infty}^{y} f_{x}(x) dx = \int_{-1}^{y} o dx = \frac{x}{4} \Big|_{-1}^{y} = \frac{1}{4} (y+1)$$



$$\frac{1}{4} \left[S(y) + rect \left(\frac{y - \frac{3}{2}}{3} \right) \right] = f_{r}(y)$$

$$\frac{1}{4} \left[S(y) + rect \left(\frac{y - \frac{3}{2}}{3} \right) \right] = f_{r}(y)$$

$$1/4 \left[S(y) + rect \left(\frac{y - \frac{3}{2}}{3} \right) \right] = f_{r}(y)$$

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$$1/4 \left[S(y) + rect \left(\frac{y - \frac{$$

3)
$$X(t)$$
 $\Rightarrow \begin{bmatrix} k(t) \end{bmatrix} \xrightarrow{Y(t)} \begin{cases} \gamma_x(t) = \gamma_x = 2 \\ \zeta_x(t_1, t_2) = 2 \cdot \text{rect}\left(\frac{t_1 - t_2}{2}\right) \\ = 2 \cdot \text{rect}\left(\frac{\tau_1 - \tau_2}{2}\right) \\ = 2 \cdot \text{rect}\left(\frac{\tau_1$

$$R_{x}(\tau) = C_{x}(\tau) + \eta x^{2} = 4 + 2 \operatorname{rect}(\tau/2)$$

$$\eta_{Y}(t) = \eta_{Y} = \eta_{X} + 1(0) = \eta_{X} \int_{-\infty}^{+\infty} h(t) dt = 2 \cdot \frac{1}{4} \cdot 1 = \frac{1}{2}$$

$$S_{x}(f) \rightleftharpoons R_{x}(t) \Rightarrow S_{x}(f) = 4S(f) + 2.2 sinc(2f) = 4[S(f) + sinc(2f)]$$

$$f_1(t) \rightleftharpoons f_2(t) \Rightarrow f_2(t) = \frac{1}{4} \cdot sinc(\frac{1}{4})$$

$$S_{y}(f) = [S(f) + sinc(2f)] \cdot sinc^{2}(f/4)/4$$

Usi solution Essip Mo L. 16 Who del

Prof. Luiss. (PAG. 200)

Essici Mo 5

$$X(t) = Sinc(t)$$
 $Y(t) = X(t) = Sinc(t)$

Solution Tect (T)

 $X(t)$
 $X(t) = X(t)$
 $X(t) = X(t)$

$$Y(f) = X(f) \otimes X(f)$$

$$Y(f) = \frac{1}{2} \text{ if } X(f)$$

$$Y(f) = \frac{1}{2} \text{ if } Y(f) = \frac{1}{2} \text{ if } X(f) = \frac{1}{2}$$

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$$\begin{array}{l}
\text{Essection} \\
\text{Pa} = \text{E} \left\{ 2, \text{F} = 1 \\
\text{Fa}^{2} = \text{E} \left[\frac{2}{3} \right] - \frac{1}{3} \right\} = 2 - (1)^{2} = 1
\end{array}$$

$$\begin{array}{l}
\text{La densite spectral departeure Johnson de et desse }$$

$$\text{Essection} \\
\text{La densite spectral departeure Johnson de et desse }$$

$$\text{Essection} \\
\text{Essection} \\
\text{$$

L'energia del region e'

$$E_S = P_S T = 2$$

b) Le probabilité d'enon e'

 $P(r) = Q(1) = Q(2)$

Tenute conto che $E_S = \frac{2}{N_D}$ y oltene

 $P(e) = Q(F_S)$

In mor 2-PATO COMENHONOM NI ha

 $P(e) = Q(2)$
 $P(e) = Q(2)$

£82KC,7108 1> 17/1+ = 100 Thit/s 2.18 1 +d Rb + 1092D 1.2 Rb = 40 Mb/1/8 3 129216 4 sp = RL = 5 bit/s/H7 b) Rb = 10 Mbit = 200 Mhit/8 2,255 Radapprando Rb la banda munam costante re l'er L'une della mappa è tale che loge n= 8 au 2'che' log 77 = 4. Deus utili 7/9re 256-9AD.