ES. (1)
$$R_{c} = \frac{3B}{2}$$

$$x(t) = \frac{3B}{x \cdot (n)}$$

$$p(t) \stackrel{?}{=} \text{ on interp. cardinals } A \text{ banda } B$$

$$x(1) = \frac{9}{5} \text{ Sinc}^{2}(Bt)$$

$$a) \quad y(t) = \frac{9}{5} \text{ b. Ey, } Py = \frac{9}{5}$$

$$c) \quad x_{c}(n), \quad \overline{X}_{c}(t) \quad quando \quad f_{c} = B$$

$$Solv 2love$$

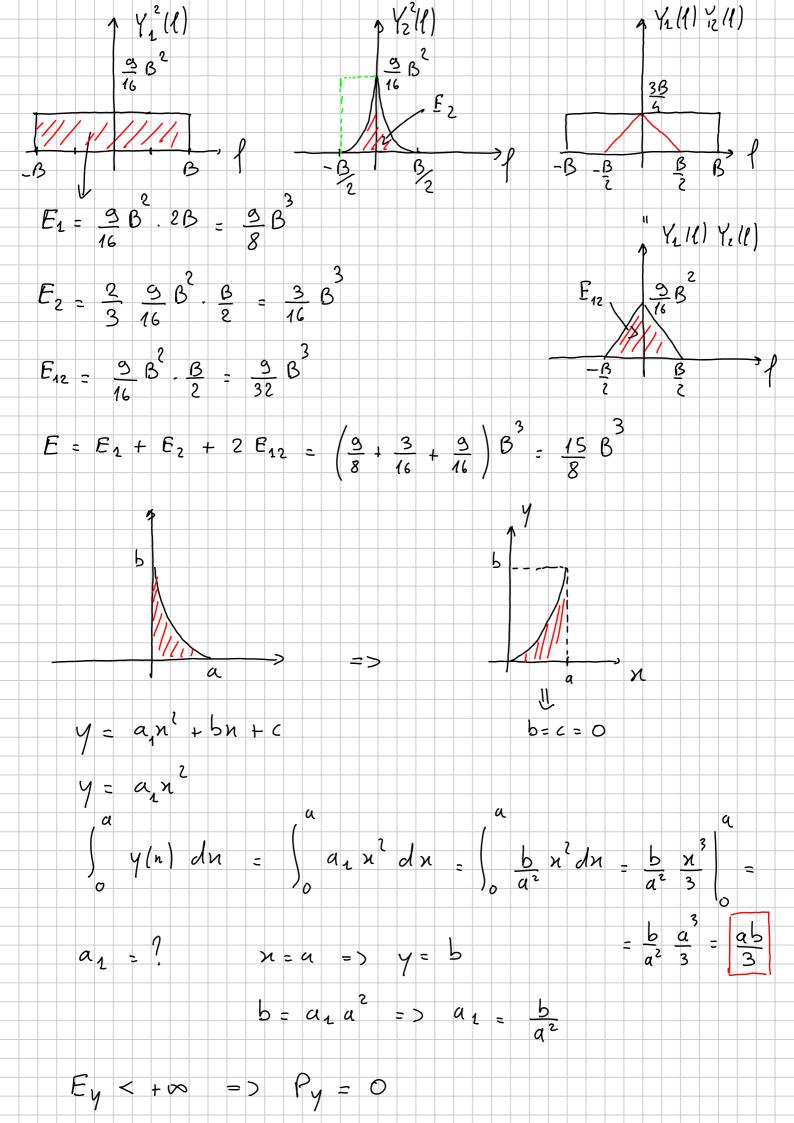
$$P(t) = \text{rest}\left(\frac{P}{2B}\right)$$

$$\overline{X}_{c}(t) = \frac{1}{T} \stackrel{?}{B} \times X\left(f - \frac{n}{T}\right), \quad T = \frac{1}{t_{c}} = \frac{2}{3B}$$

$$\stackrel{?}{=} \overline{X}(t), \quad \frac{3B}{2B}$$

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$$\begin{aligned} & \forall \{l\} = \overline{X}_{c}\{l\} \ P\{l\} \\ & \Rightarrow \{l\} \\ &$$



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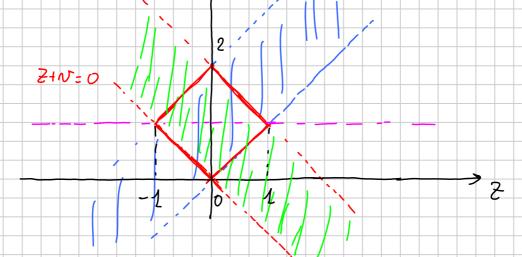
$$\left(\begin{array}{ccc}
\chi & - & \frac{2+\sqrt{2}}{2} \\
\chi & - & \frac{\sqrt{2}-2}{2}
\end{array}\right)$$

$$\frac{5}{2} = \frac{1}{2} \left| \frac{1}{2} - \frac{1}{2} \right| = 2$$

$$f_{xy}(n_{yy}) = f_{x}(n) f_{y}(y) = rect\left(\frac{x-1/z}{1}\right) rect\left(\frac{y-\frac{1}{2}}{1}\right)$$

$$\begin{cases} 2V & (2N) = \frac{1}{2} & \text{rest} & \left(\frac{2+N}{2} - \frac{1}{2}\right) & \text{rest} & \left(\frac{N-\frac{2}{2}}{2} - \frac{1}{2}\right) \end{cases}$$

$$= \frac{1}{2} \operatorname{rest} \left(\frac{2+w-1}{2} \right) \operatorname{rest} \left(\frac{w-2-1}{2} \right)$$



$$-1 \le 2+v - 1 \le +1 => 0 \le 2+v \le 2$$

$$-1 \le N-2-1 \le 1 = 0 \le N-2 \le 2$$

$$F_{2|A}(2|A) = \frac{1}{1/2} \cdot \frac{1}{2} \cdot \frac{(1+2)^2}{4} \cdot 0 \leq 2 \leq 1$$

$$F_{2|A}(2|A) = \frac{1}{1/2} \cdot \frac{1}{2} \cdot \frac{(1-2)^2}{2} \cdot 0 \leq 2 \leq 1$$

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$$f_{2|A}(2|A) = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{(2|A)}{2} = 1$$

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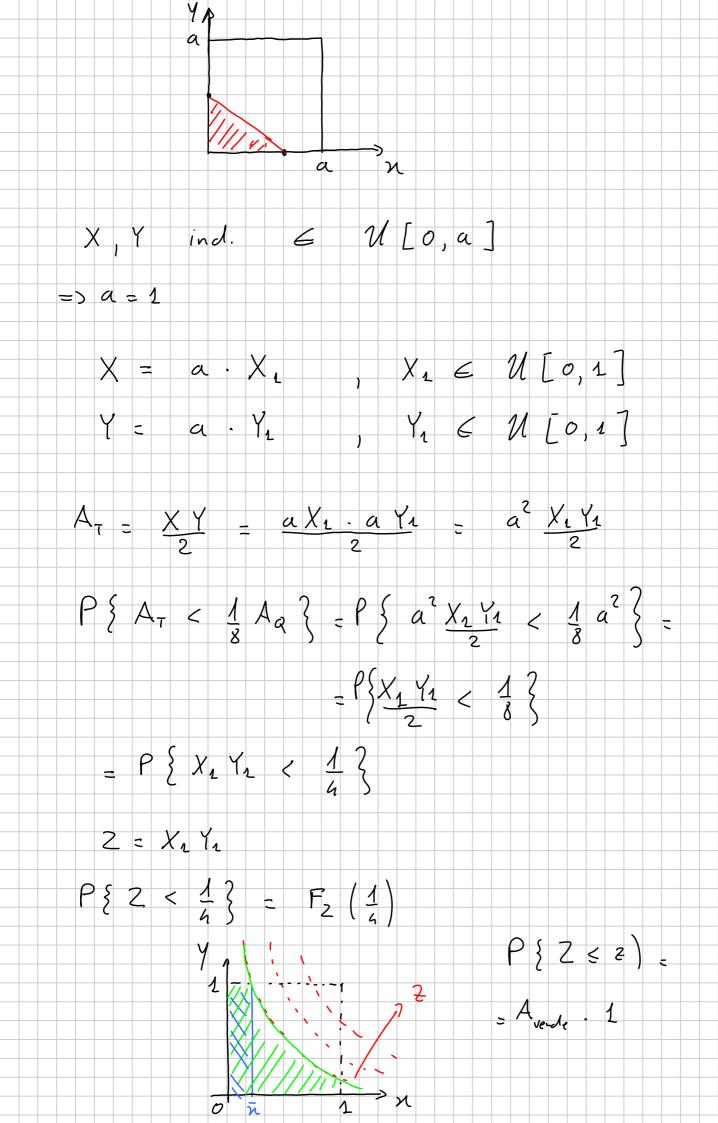
$$f_{2|A}(2|A) = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = 1$$

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$$f_{2|A}(2|A) = = 1$$

$$f_{2|A}(2$$



$$\begin{cases} x_{1} & (n, y) = \begin{cases} x_{1} & (n) \\ y & (y) \end{cases} = rect\left(\frac{x_{1} - y_{1}}{1}\right) rect\left(\frac{y_{1} - y_{1}}{1}\right) \\ x_{1} & y = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} \end{cases} = y = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{cases} = x = \begin{cases} \frac{1}{4} & \frac{1}{4}$$