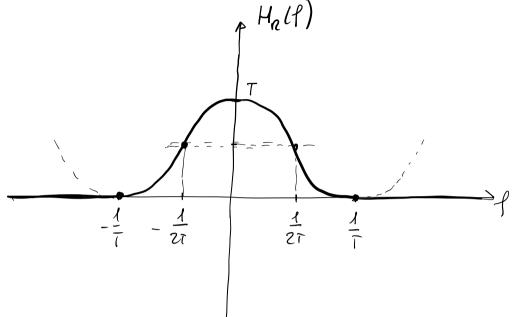
$$H(l) = \frac{T}{2} \left( 1 + \cos(\pi l T) \right) \text{ rest} \left( \frac{lT}{2} \right)$$



$$P(A_2) = 7$$

TEO DELLA PROB TOTALE

$$P(A_{2}) = P(A_{2}|A_{1})P(A_{1}) + P(A_{2}|\overline{A}_{1})P(\overline{A}_{1})$$

$$= \frac{2}{3} \cdot \frac{1}{3} + \frac{1}{3} \cdot \frac{2}{3} = \boxed{\frac{4}{3}}$$

$$P(A_2 | A_1) = \frac{2}{3}$$

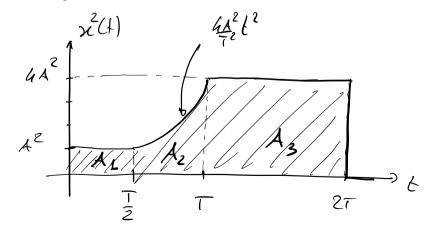
$$\rightarrow P(A_1) = \frac{1}{3}$$

$$P(A_2|\bar{A}_1) = \frac{1}{3}$$

$$P(\bar{A}_1) = \frac{2}{3}$$

$$P(A_1 | A_2) = \frac{P(A_2 | A_1) P(A_1)}{P(A_2)} = \frac{\frac{2}{3} \cdot \frac{1}{3}}{\frac{4}{9}} = \frac{\frac{1}{2}}{\frac{2}{3} \cdot \frac{2}{4}} = \frac{1}{2}$$

$$E_{x} = 2 \int_{0}^{2T} x^{2}(1) dt = 2 (A_{1} + A_{2} + A_{3})$$



$$A_{1} = A \cdot \frac{1}{2}$$

$$A_{2} = \int_{\frac{1}{2}}^{\frac{1}{2}} \frac{4A^{2} t^{2}}{T^{2}} dt = \frac{4A^{2} t^{3}}{T^{2}} \Big|_{\frac{1}{2}}^{\frac{1}{2}}$$

$$A_{3} = 4A^{2}T$$

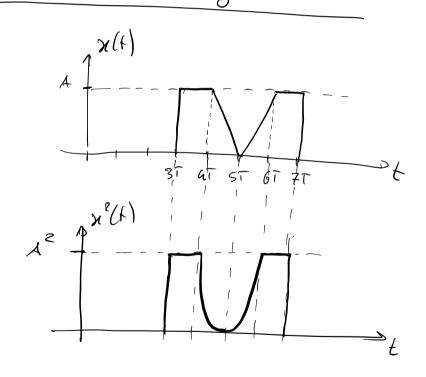
$$A_{3} = 4A^{2}T$$

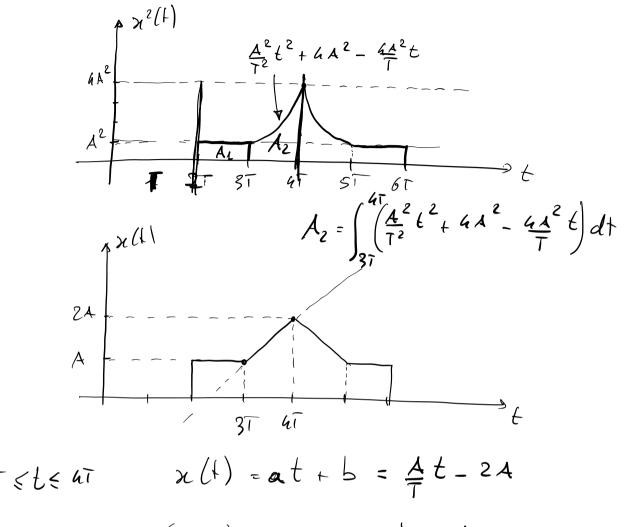
$$A_{4} = \frac{4A^{2} t^{2}}{T^{2}} dt = \frac{4A^{2} t^{3}}{T^{2}} \Big|_{\frac{1}{2}}^{\frac{1}{2}}$$

$$\frac{1}{2} \leq t \leq T \qquad \chi(t) = \underbrace{at}_{T} = \underbrace{24}_{T} t$$

$$\chi^{2}(t) = \underbrace{44}_{T^{2}} t^{2}$$

$$\chi(t) = at + b$$





$$3T \le t \le aT$$

$$x(t) = at + b = \frac{A}{T}t - 2A$$

$$(3T,A) \Rightarrow a \Rightarrow 3T + b = A$$

$$(4T,2A) \Rightarrow a \Rightarrow 4T + b = 2A$$

$$aT = A \Rightarrow a = \frac{A}{T}$$

$$\begin{array}{c} A 37 + b = A \\ \hline P \\ b = A - 3A = -2A \end{array}$$

$$X(l) = 2A \operatorname{rest}\left(\frac{l}{2B}\right) - A\left(1 - \frac{|l|}{B}\right) \operatorname{rest}\left(\frac{l}{2B}\right)$$

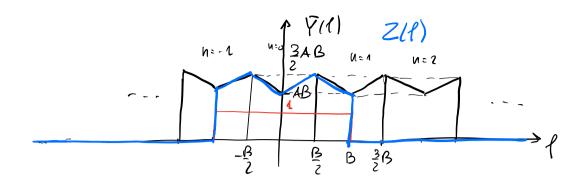
$$X(l) = 2A \operatorname{rest}\left(\frac{l}{2B}\right) - A\left(1 - \frac{|l|}{B}\right) \operatorname{rest}\left(\frac{l}{2B}\right)$$

$$X(l) = X(l) + H(l)$$

$$Y(l) = X(l) + Y(l) = \frac{3}{2} A \operatorname{rest}\left(\frac{l}{B}\right) - \frac{A}{2}\left(1 - \frac{|l|}{8}\right) \operatorname{rest}\left(\frac{l}{B}\right)$$

$$Y(l) = X(l) + Y(l) \Rightarrow \overline{Y(l)} = \frac{l}{T} \sum_{N=-\infty}^{+\infty} Y(l - \frac{N}{T})$$

$$= B \geq Y(l - nB)$$



$$P(l) = rest(\frac{l}{2B})$$
  $Z_{oll} = AB rest(\frac{l}{B}) + \frac{AB}{2}(1 - \frac{|l|}{B}) rest(\frac{l}{B})$ 

