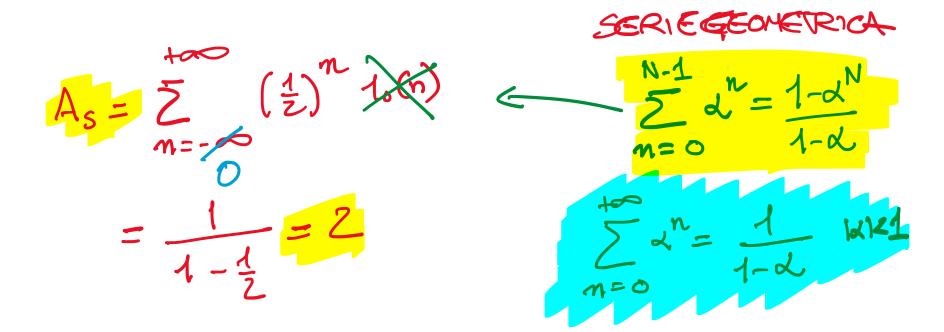
Le03

Friday, 28 February 2025

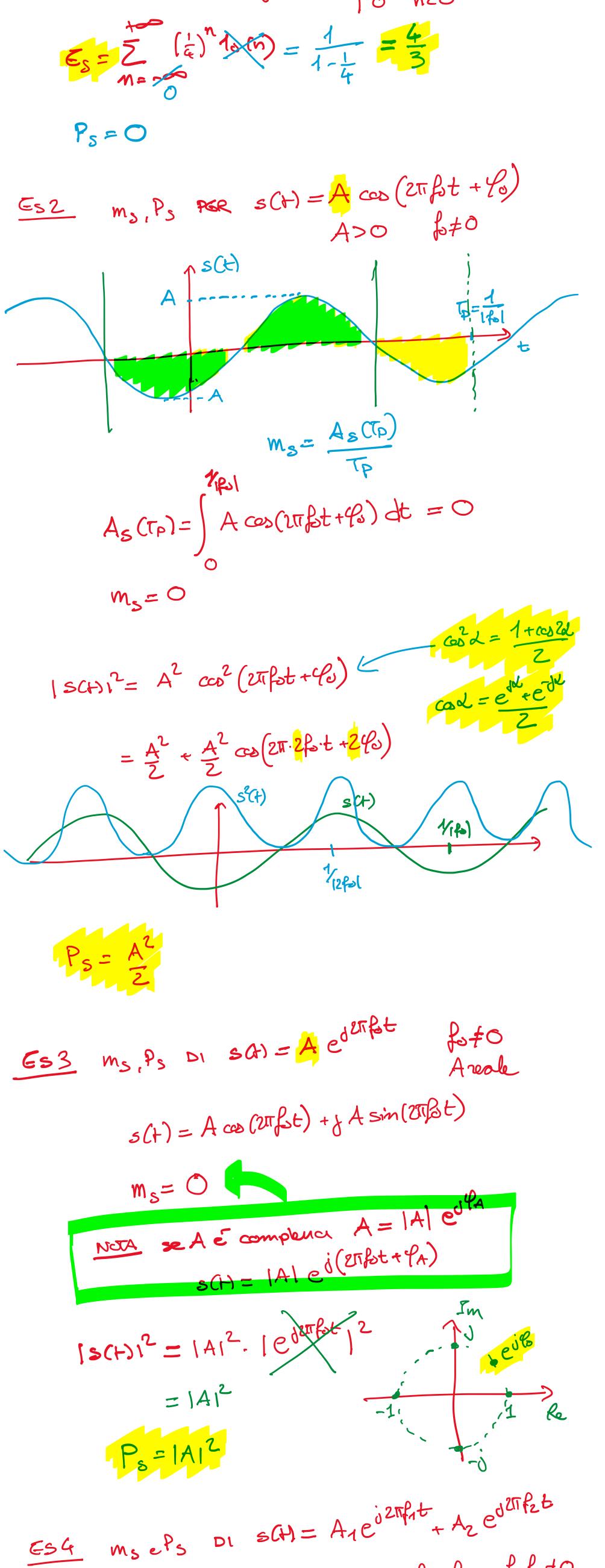
10:25

 $\overline{ES1} \quad A_{s}, m_{s}, \overline{Es}, P_{s} \quad \text{Rer } s(n) = (\frac{1}{2})^{n} \quad 1_{0}(n)$ $1 \quad S(n) \quad (\frac{1}{2})^{n}$ $\frac{1}{\sqrt{2}} \quad \frac{1}{\sqrt{2}} \quad$



M5=0

 $|S(n)|^{2} = |(\frac{1}{2})^{n}|^{2} \cdot |1_{0}(n)|^{2} = (\frac{1}{2})^{2n} \cdot 1_{0}(n) = (\frac{1}{4})^{n} \cdot 1_{0}(n)$ $1_{0}(n) = \begin{cases} 1 & n \ge 0 \\ 0 & n < 0 \end{cases}$ $(1_{0}(n))^{2} = \begin{cases} 1 & n \ge 0 \\ 0 & n < 0 \end{cases} = 1_{0}(n)$



E54 f2#f1 f1,12#0 ms=0 $|x|^2 = X \cdot X^*$ $|S(t)|^{2} = \left(A_{1}e^{J2Trf_{1}t} + A_{2}e^{J2Trf_{2}t}\right) \cdot \left(A_{1}^{*}e^{-J2Trf_{1}t} + A_{2}^{*}e^{-J2Trf_{2}t}\right)$ $= A_1 A_1 e^{\partial^2 \pi R_1 t} e^{-\partial^2 \pi R_1 t}$ + A1A2 edenfat e-jenfet -jenfet -jenfet + $A_2 A_1$ $e^{d2\pi f_2 t} e^{-d2\pi f_1 t} - 3e^{(f_2 f_1)t}$ + $A_2 A_2$ $e^{-d2\pi f_2 t} e^{-d2\pi f_2 t}$ $e^{dk}e^{dB} = e^{i(a+B)}$ $|S(f)|^{2} = |A_{1}|^{2} + A_{1}A_{2}^{*}e^{jt}(f_{1}-f_{2})t$ + $A_2 A_1 e^{d2\pi}(f_2 - f_n)t$ f1#f2 $+ |A_2|^2$ $\frac{1}{2} = |An|^2 + O + O + |Az|^2$ $= |An|^2 + |Az|^2$ Ps=