(11/11) FUNCIÓN ZETA DE DEDEKIND 5(5) = 2 1 ns ·) S(s) converse assolutemente si Res>1 ·) lin (5-1) \((S) = 1. $\frac{1}{\sum_{n=1}^{N+1} \frac{dx}{x^{S}}} \leq \frac{1}{h^{S}} \leq \frac{1}{\sum_{n=1}^{N} \frac{dx}{x^{S}}}$ Dem | 1 = Res 5 dx (5)(1) (1+) dx $\frac{1}{s-1} \leq s(s) \leq \frac{s}{s}$ 1 \(\langle (s-1)\forall (s) \le s =) Pin (S-1) 3(S) = 1. [X LOS K/Q ~ Junción Zete de Dederind $S_{k}(S) = \sum_{0 \neq I \in \mathcal{O}_{k}} \frac{1}{N_{k,0}(I)^{S}}$ K = Q: $O_{K} = Z_{1}$ $S_{Q}(S) = S(S)$ Proposición) Sx (1) converse cospolatamente para Res >1.

Dem Sera hériciente prober per el producto (de)

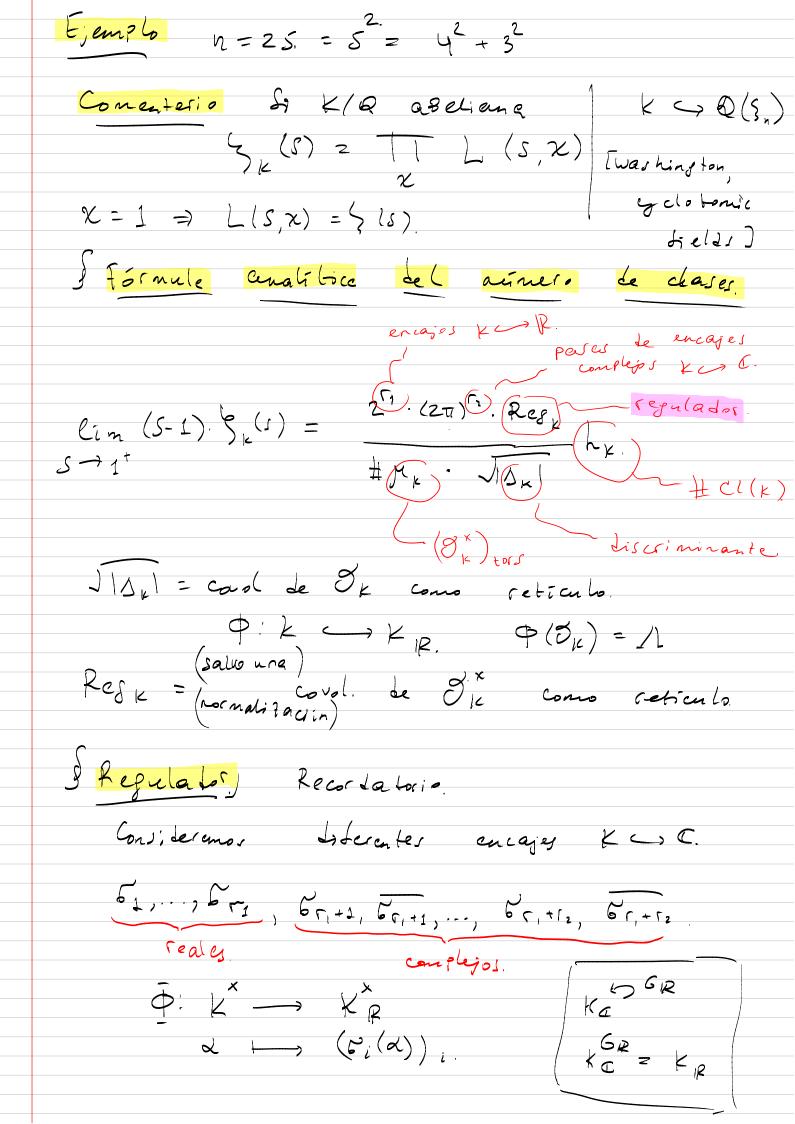
converge assolutemente porc 571

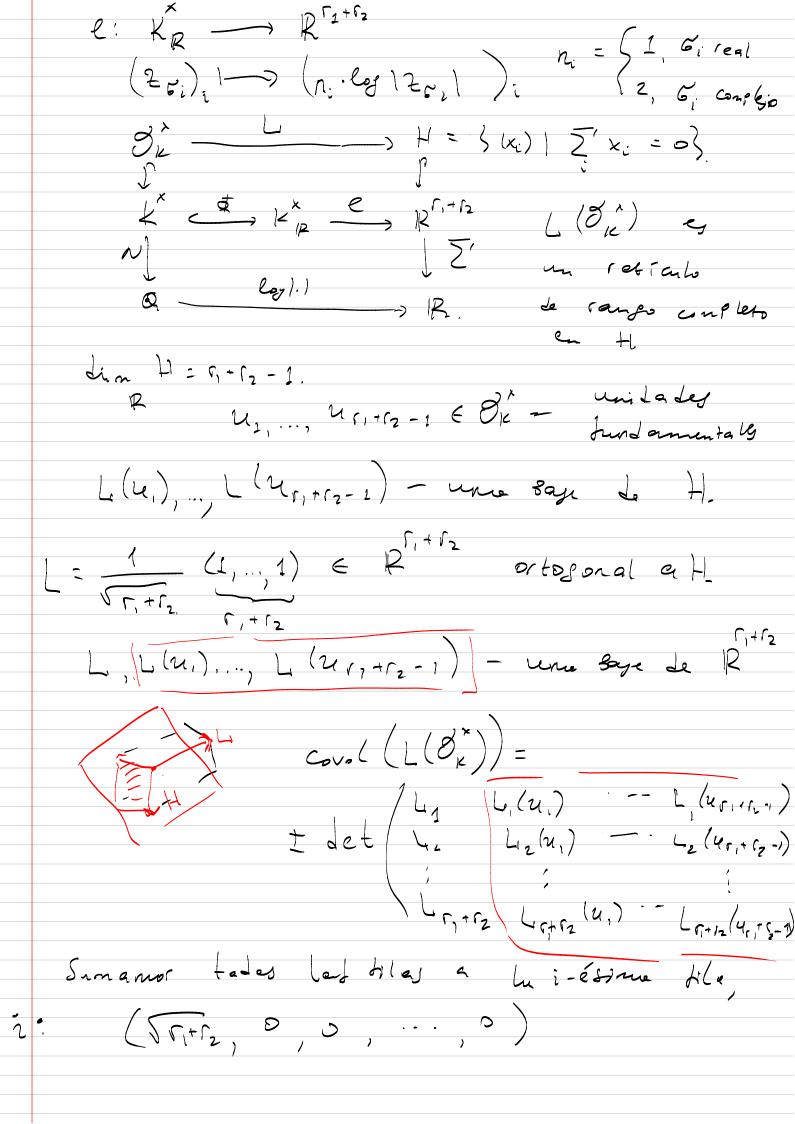
$$((s, x) = \frac{1}{1 - x/p}) p^{-s} = \frac{1}{2x/p} \frac{x(n)}{n^{s}}$$

$$((s, x) = \frac{1}{1 - x/p}) p^{-s} = \frac{1}{2x/p} \frac{x(n)}{n^{s}}$$

$$((s, x) = \frac{1}{2x/p}) \frac{x(n)^{s}}{n^{s}} = \frac{1}{2x/p} \frac{x(n)}{n^{s}}$$

$$((s, x) = \frac{1}{2x/p}) \frac{x(n)}{n^{s}} = \frac{1}{2x/p} \frac{x(n)}$$





Covol
$$L(S_{k}^{*}) = S_{1}^{*} + S_{2}^{*} \cdot \text{Reg }_{k}$$

Reg = el valor assoluto del det.

le culquier menor le range

 $\Gamma_{1} + \Gamma_{2} - 1$ de la matrite

 $L_{1}(u_{1})$
 $L_{2} = C_{1} + C_{2} = C_{1} \cdot C_{2} \cdot C_{3} \cdot C_{4}$
 $L_{3} = C_{1} \cdot C_{3} \cdot C_{4}$
 $L_{4} = C_{1} \cdot C_{4} \cdot C_{4}$
 $L_{5} = C_{5} \cdot C_{5}$
 $L_{5} = C_{5} \cdot C_{5}$

La próxima clase: (18 de noviembre) $h_{R} = \frac{1}{2} \sum_{k=1}^{\infty} \frac{\alpha}{2}$