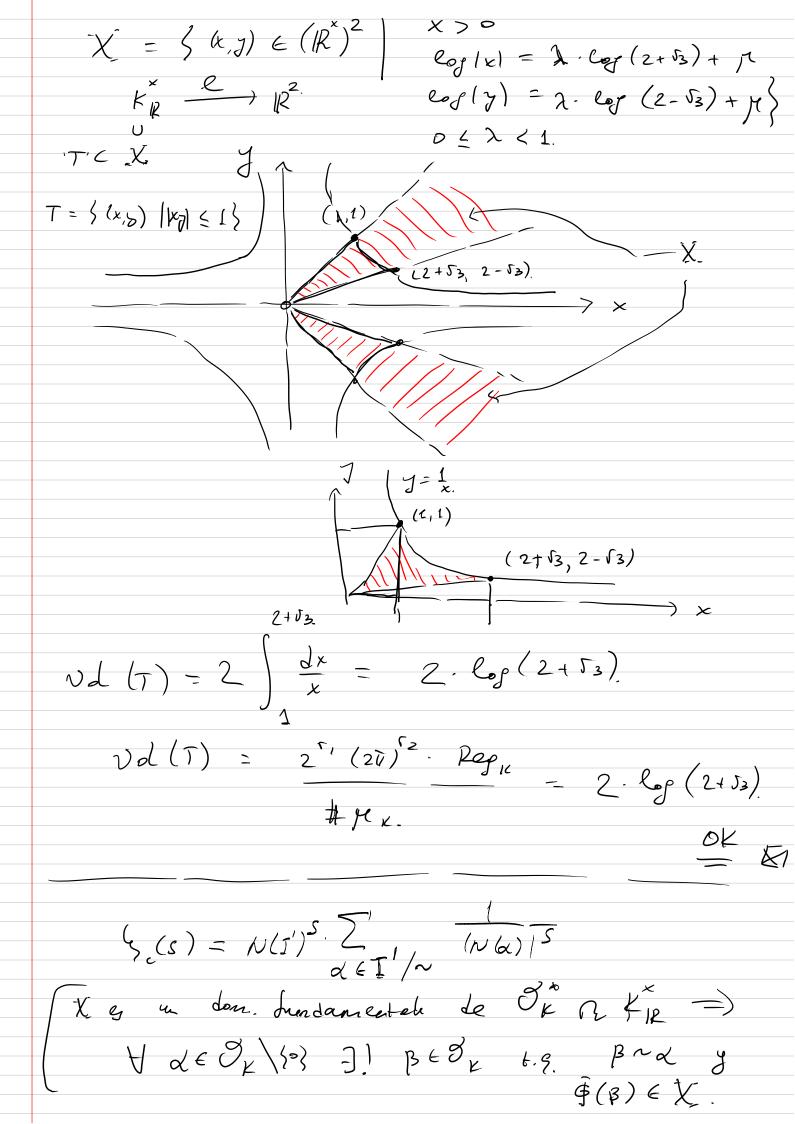
23/11 (Bosquejo de) la prueba de la tórmula analítica del número de clases. Com (S-1) 9 K(S) = 2 (21) 2 Reg K; hx $S_{K}(S) = \frac{1}{Z'} \frac{1}{N_{K/Q}(I)^{s}}$ $= \sum_{c \in Cl(k)} \beta_{c}(s) = \sum_{c \in Cl(k)} \frac{1}{\gamma_{c}(s)^{s}}$ $eim (S-L) > (S) = (2^{(1)})^{2} \cdot 12ep (1)$ $S \rightarrow 1^{+}$ (# MK . JIDK) CEC((K) I'ESK F.G. [J] = c] I = 3x t,q [I] = c II' = dou para d = 0,1/0) $\{I \subseteq \mathcal{O}_{k} \mid \Gamma I \} = c \} \longleftrightarrow \{\mathcal{O}_{k} \mid \mathcal{A} \in I' \}$ N(II')=/N(a)/ N(I). N(I') $= N(s')^{S} \sum_{\alpha \in \Gamma'} \frac{1}{(N(\alpha))^{S}}$ $= N(s')^{S} \sum_{\alpha \in \Gamma'} \frac{1}{(N(\alpha))^{S}}$ Jx n Kc $u \cdot x = \Phi(u) \cdot x$ 9 K n K & ~ (12*) Teorema 1 Existe X CKR 1) X es un cono: neX => \x2>0 \x2EX 2) X ey un dominio bund. resp. Ox 2 Kg. $\forall y \in \mathbb{Z}_{R}^{*} \exists ! u \in \mathcal{O}_{L}^{*} \exists ! x \in \mathbb{Z} \quad f, q \qquad y = \varphi(u), \alpha.$

3) T= 3x EX | T |x, 1 \le 1 \} es autado. Vol T = (21/(21))2. Repx # 74 4. Exemple K = Q(5-3) $K_R \simeq Q^2$ (xx, x=) -> (Rexx, Imxx) 8 = M6(C) acción: rotación de T JERKRZRZEC. $\beta_{G} = \exp\left(\frac{2\pi i}{G}\right)$ $\beta_{G} = \frac{2}{7} = \frac{1}{3} =$, AI m $Vol(T) = \frac{\pi}{6}$ $Vol(T) = \frac{\tau}{2}$ $Vol(T) = \frac{\pi}{3}$ -) Rey = 1. Vol (T) = 2" (27) 2. Reg x ·) # M K = 6 Hrx. ·) [= ?, [z = 1.. Evenplo K=Q(v3) KR ~ R2 8x = 3 ± u" | n = Z} u = 2 + \(\mathref{1} 3, ~ {11} x (u) (x,y) EX =) x70. $\overline{\Phi}(u^n) \cdot (\alpha, y) = ((2+\sqrt{3})^n \cdot \alpha, (2-\sqrt{3})^n \cdot y)$ $e: \mathcal{K}_{R} \longrightarrow \mathbb{R}^{2}$ $(x,y) \longmapsto (los|x|, los|y|)$

$$\frac{\partial_{k}^{x}}{\partial_{k}^{y}} \xrightarrow{k} \frac{e}{k} = \frac{e}$$



$$\Lambda = \overline{\Phi}(\overline{1}') \subset k_{R}, \qquad |N(\omega)| = \overline{\Pi} |C_{1}(\omega)|$$

$$\int_{C} (S) : N(\overline{1}')^{S} \sum_{W(\omega)|S} |W(\omega)|S}$$

$$WE AIX$$

$$\Gamma = \overline{\Phi}(\overline{1}') \subset k_{R}, \qquad |W(\omega)|S}$$

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$$Volume no rule.

$$\overline{\Phi}(S) = \sum_{W \in A_{1}} |\nabla_{W}(S)| = S \text{ and eade,}$$

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Cons se denucestre et segundo teorena. 177 = 5x E X | F(2) 5] X $\frac{2(s)}{F(z)^{s}}$ $\omega \in A_{n} X$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ $C(r) = \lim_{r \to \infty} C(r) \cdot \operatorname{covol}(\frac{1}{r} \cdot \Lambda)$ = $\# \{ \omega \in \Lambda_{\Lambda} \times \} = \{ (\omega) \leq r^{\Lambda} \}$ WEANX Z'CR" $F(\omega_1) \leq F(\omega_2) \leq F(\omega_3) \leq \cdots$ $\frac{1}{2(s)} = \frac{1}{F(\omega_k)^s}$ $e^{-200} F(w_k) = \frac{vol(T)}{covol(A)}$ Jol (T) lsm (5-1) Z(5) = covol (A).

La proxime sesión:

K/a extra a8 elsane. \sim 3 (s) = TT L(s, x)