

$$\begin{array}{l} ? \\ ? \\ |\cdot| \mapsto \end{array}$$

$$|a+ib|\mapsto \sqrt{a^2+b^2}$$

$$\begin{array}{l} a+ \\ ib\in \\ k \\ \cdot \\ \vdots \\ k\rightarrow \\ val- \\ a- \\ tion \\ |\alpha|= \\ 0\Longleftarrow \\ 0\Longrightarrow \\ \cdot \\ \subset \\ \alpha\beta|= \\ \alpha||\beta| \\ \alpha+ \\ |\beta|\leq \\ |\alpha|+ \\ |\beta| \\ nonar- \\ chimedean \\ archimedean \\ |\alpha+ \\ |\beta|\leq \\ \max(|\alpha|,|\beta|) \\ (1+ \\ i) \\ (i) \\ (3)\subset \end{array}$$

$$x3=x(3)=3^{-\nu_3(x)}$$

$$\begin{array}{l} 363= \\ 3^{-2}= \\ ? \\ equiv- \\ a- \\ lence \\ \cdot \\ equiv- \\ a- \\ lent \\ \bar{c}\in \\ (0,1) \\ |\cdot|_1=|\cdot|_2^c \end{array}$$

$$\begin{array}{l} equiv- \\ a- \\ lent \\ \cdot \\ 1 \\ \cdot \\ \gamma^2 \\ |\gamma|_1<1and|\gamma|_2>1. \end{array}$$

$$\begin{array}{l} \cdot \\ \alpha^i \\ |\alpha|_1>1and|\alpha|_{i>1}<1. \end{array}$$

$$\begin{array}{l} \cdot \\ \epsilon^i> \\ 0 \\ |\alpha-1|_1\leq 1and|\alpha|_{\nu>1}\leq 1. \end{array}$$

$$\begin{array}{l} (|\cdot \\ i,\alpha_i) \\ \cdot \\ \epsilon^i> \\ 0 \\ |\alpha-\alpha_i|_i<\epsilon. \end{array}$$

$$\begin{array}{l} \cdot \\ i \\ \prod |\alpha|_i^{\nu_i}=1 \end{array}$$

$$\begin{array}{c} k\hookrightarrow\\ V(k)\\ i\\ k\rightarrow\\ k\end{array}$$

$$\alpha\mapsto (i(\alpha))$$

$$V()=\Pi$$

$$\begin{array}{l} k\\ V(\alpha)=\\ 1\\ V(\alpha)=V() \end{array}$$

$$\begin{array}{l} \mapsto\\ x\in\\ x=1\\ c\leq\\ x\\ k\\ k_0\subset\\ k^s\\ q\\ q\\ s\\ k_0\\ q\\ q\\ 1\\ s\\ k_0\\ M\\ M()\\ \theta\in\\ k\\ M(\theta)=\\ M()\\ \theta\\ \theta\in\\ \alpha\in\\ k\\ \alpha\leq\\ 1\\ \alpha<\\ 1\\ /\\ or-\\ der\\ N\\ k_0\subseteq\\ k=\\ /\\ N=(\#k_0)^{[k:k_0]} \end{array}$$

$$\begin{array}{l} M\\ \mathfrak{M}\\ N\\ k=\\ \alpha\neq\\ 0\\ /\\ |\infty\\ ||\alpha||=\frac{1}{N^\nu} \end{array}$$

$$\begin{array}{l} \nu=(\\ \alpha)\\ k=\\ \parallel\cdot\\ k=\\ \parallel\cdot\\ M\\ \mathfrak{M}\\ \mathfrak{M}\\ K/\\ k_1\\ K/k_1(z)\\ z\\ /k_1\\ \mathfrak{M}\\ \mathfrak{M}\\ \mathfrak{M}\\ \mathfrak{M}\\ C,D\\ CV()<M()\leq\max(1,DV()) \end{array}$$

$$\begin{array}{l} U\\ \tilde{x}\in\\ k\\ U\\ ||x||=1\\ k_0\\ U \end{array}$$