

$$\overset{?}{?} \\ |\cdot| \mathrel{\mathop:} \rightarrow$$

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

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

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

$$\begin{array}{l} 36\mathfrak{z}= \\ \mathfrak{z}^{-2}= \\ field- \\ theoretic \\ equiv- \\ q- \\ lence \\ \cdot \\ 2 \\ equiv- \\ q- \\ lent \\ 1 \\ \tilde{c}\in \\ (0,1) \\ |\cdot|_1=|\cdot|_2^c \end{array}$$

$$\begin{array}{l} equiv- \\ q- \\ lent \\ prime \\ place \\ place \\ p \\ (p) \\ p \\ fi- \\ nite \\ \cdot \\ i \\ \cdot \\ 1 \\ \cdot \\ 2 \\ \gamma \end{array}$$

$$|\gamma|_1<1and|\gamma|_2>1.$$

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

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

$$(|\cdot$$

$$\begin{array}{l} 0 \not\in \\ \alpha \in \\ b_i \\ 0 \\ \xi^n \\ \xi^n \\ M \\ (,|. \\ |) \\ 0 \not\in \\ \alpha \in \\ k \\ 1 = \end{array}$$

$$\prod_\alpha = 1$$

$$6\in 6(0)\cdot 6(2)\cdot 6(3)=6\cdot 2^{-1}\cdot 3^{-1}=1$$

$$\begin{array}{l} 1+1()> \\ \frac{1}{k} \\ \backslash \mathbf{e} \end{array}$$

$$\begin{array}{l} M \\ V_M \end{array}$$

$$v=(v), where v\in k.$$

$$\begin{array}{l} \bar{v} \\ (v) \\ \overline{id\bar{e}le} \\ \overline{v} \\ 0 \\ v=1 \\ k\hookrightarrow \\ V_M \\ i \\ k\rightarrow \\ k \end{array}$$

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

$$\begin{array}{l} \bar{\mathfrak{e}} \\ \mathfrak{e} \\ V() = \prod \end{array}$$

$$\begin{array}{l} \bar{\mathfrak{t}} \\ \mathfrak{t} \\ V_M \\ \alpha \\ k \\ ?? \end{array}$$

$$V(\alpha)=\prod_{=}{1}.$$

$$V(\alpha)=V(\alpha)V()=V().$$

$$\begin{array}{l} \mapsto \\ x\in \\ x=1 \end{array}$$

$$\leq$$

$$\begin{array}{l} x \\ \bar{x} \\ V() \\ \mathbf{TODO} \\ \mathbf{ADD} \\ \mathbf{LINK} \\ x\in \\ \alpha\in \\ x \\ \mathfrak{e} \end{array}$$

$$\leq$$

$$\begin{array}{l} or-? \\ der \\ \alpha \in \\ k \\ k \\ V_M \\ k \end{array}$$