

$$\mathbb{C}=\mathbb{R}+i\mathbb{R}$$

$$x+iy \in \mathbb{R} \Rightarrow {}_2\mathbb{R}^2 \ni \frac{x}{-y} \Bigg| \frac{y}{x}$$

$$\underline{x+iy}\,\underline{u+iv} = \frac{x}{-y} \Bigg| \frac{y}{x} \; \frac{u}{-v} \Bigg| \frac{v}{u} \; = \underline{xu-yv} + i\underline{xv+yu}$$