

$$z = a + ib$$

$$z^* = a - ib$$

$$\begin{aligned} z \cdot z^* &= a^2 - \cancel{iab} + \cancel{iba} - i^2 b^2 \\ &= a^2 + b^2 \end{aligned}$$

$$|z| = \sqrt{a^2 + b^2}$$

$$|z|^2 = z \cdot \bar{z}$$

unívoca = injection