

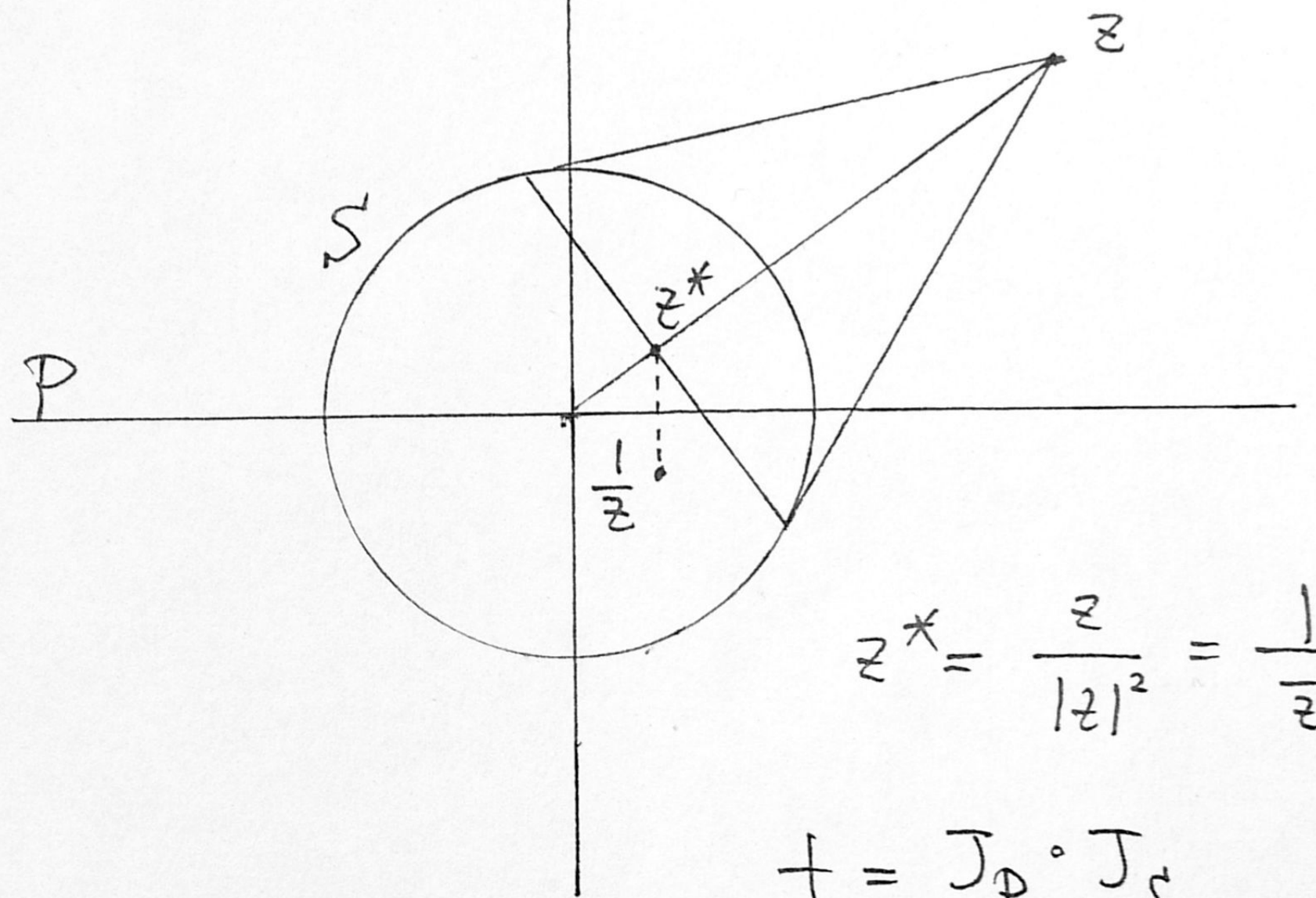
$$\mathbb{C}^2 \setminus \{0\} \xrightarrow{A} \mathbb{C}^2 \setminus \{0\}$$

 $\rho \downarrow$
 $\rho \downarrow$

$$\mathbb{C}P^1 \xrightarrow[\underset{f}{\parallel}]{\phi(A)} \mathbb{C}P^1$$

Fig. 1

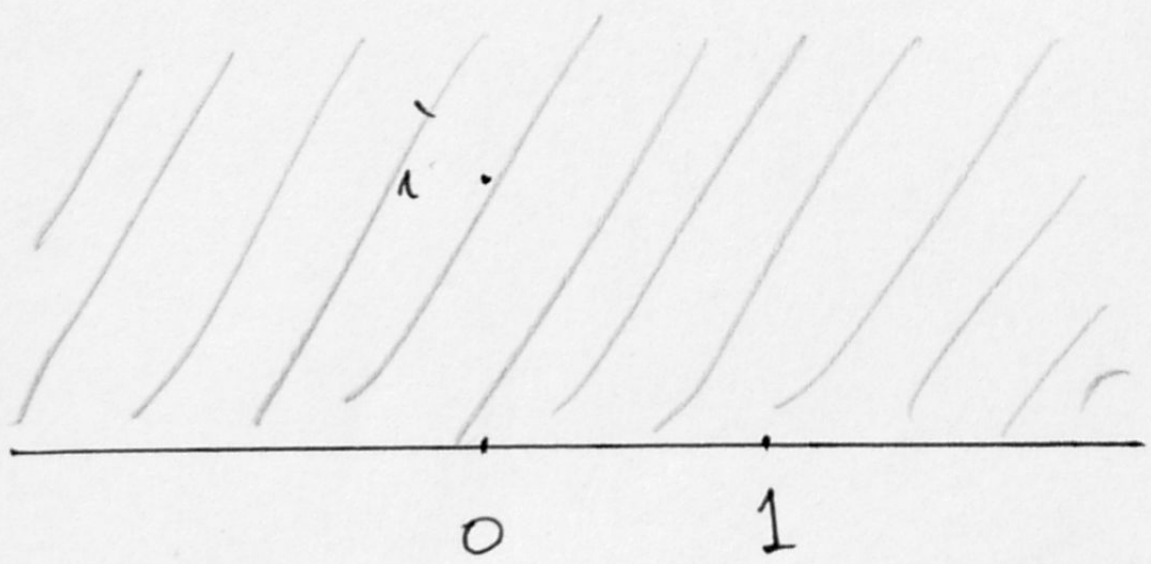
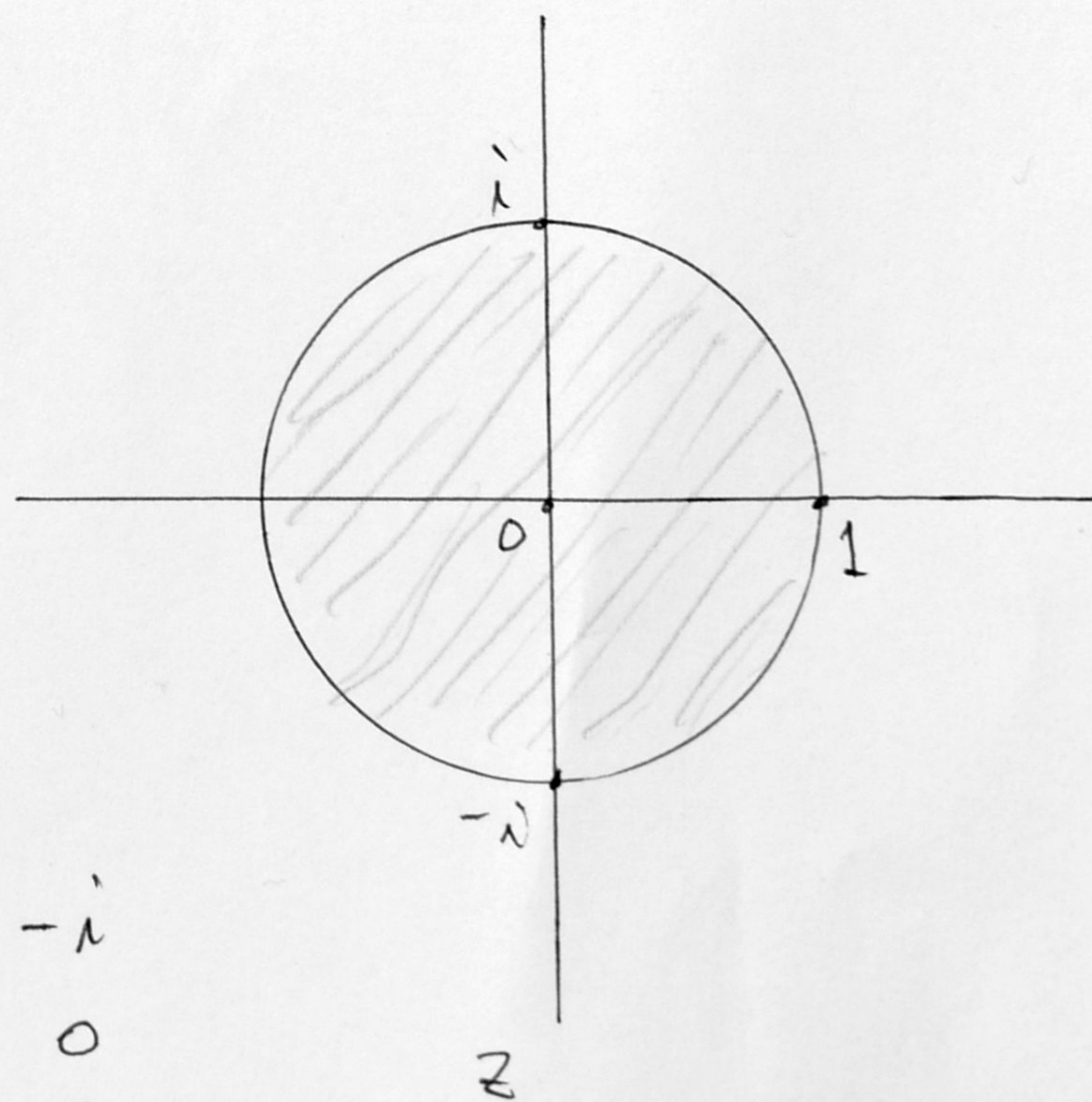
$$f: z \mapsto \frac{1}{\bar{z}}$$



$$z^* = \frac{z}{|z|^2} = \frac{1}{\bar{z}}$$

$$f = J_p \circ J_S$$

Fig. 2


 $\phi \in M^+$

 w

$$w = \phi(z) = -i \frac{z+i}{z-i}$$

$$\begin{array}{l} 0 \longleftarrow -i \\ i \longleftarrow 0 \\ \infty \longleftarrow i \end{array}$$

Fig. 3