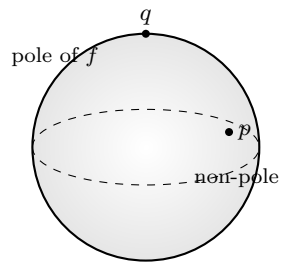
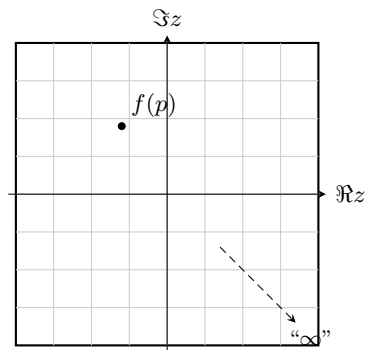


$$X = \mathbb{CP}^1$$

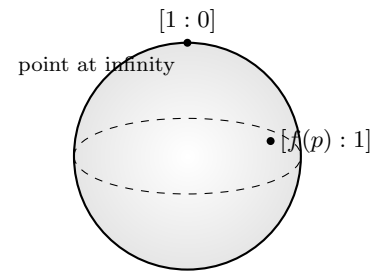


$f$  is a rational function on  $\mathbb{CP}^1$

$$\mathbb{C}$$



$$\mathbb{CP}^1$$

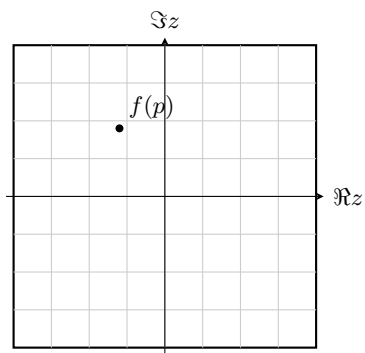


$$\{[z_0 : z_1] \mid z_1 \neq 0\} \simeq \mathbb{C}$$

$$U_1 = \{[z_0 : z_1] \in \mathbb{CP}^1 \mid z_1 \neq 0\}$$

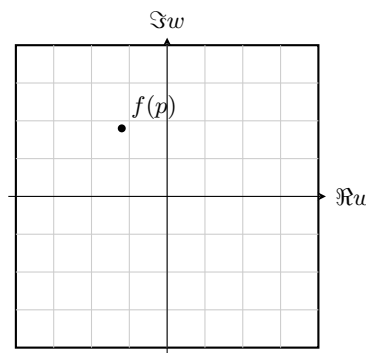
$$\mathbb{C} = \text{Im}g(\phi_1) = \left\{ w = \frac{z_0}{z_1} \in \mathbb{C} \mid [z_0 : z_1] \in U_1 \right\}$$

$$U_1 (\simeq \mathbb{C})$$



$$\begin{aligned} \phi_1 : \quad U_1 &\longrightarrow \mathbb{C} \\ [z_0 : z_1] &\longmapsto \frac{z_0}{z_1} \end{aligned}$$

$\phi_1$  is a biholomorphism,  
i.e.,  $U_1 \simeq \mathbb{C}$



$$\begin{aligned} \phi_1^{-1} : \quad \mathbb{C} &\longrightarrow U_1 \\ w = \frac{z_0}{z_1} &\longmapsto [z_0 : z_1] \end{aligned}$$

