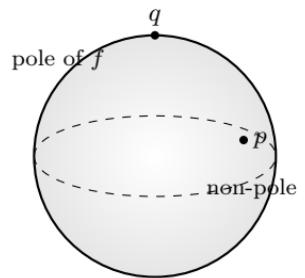
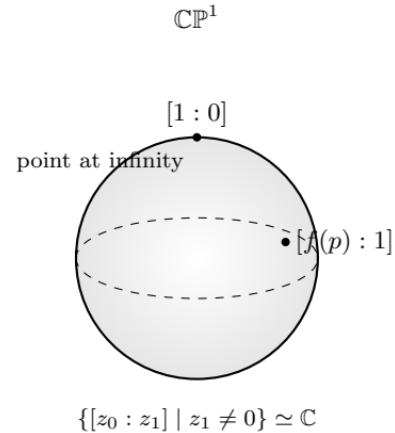
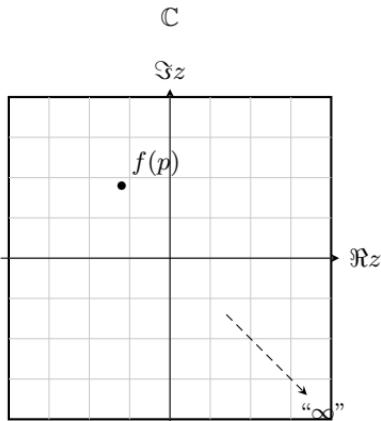
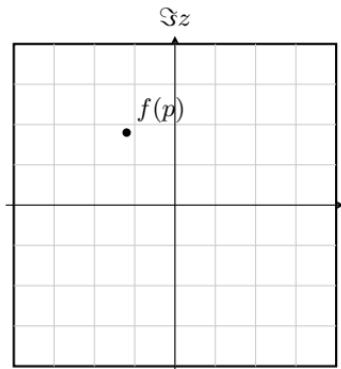


$X = \mathbb{CP}^1$  $f$  is a rational function on  $\mathbb{CP}^1$ 

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

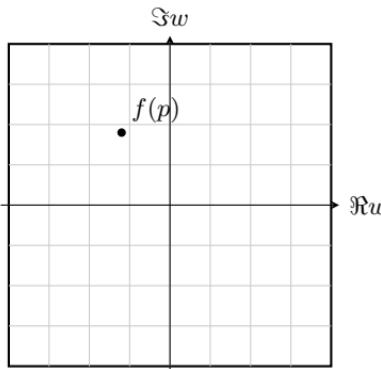
$$\mathbb{C} = \text{Img}(\phi_1) = \left\{ w = \frac{z_0}{z_1} \in \mathbb{C} \mid [z_0 : z_1] \in U_1 \right\}$$

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



$$\begin{array}{rccc} \phi_1 : & U_1 & \longrightarrow & \mathbb{C} \\ & [z_0 : z_1] & \mapsto & \frac{z_0}{z_1} \end{array}$$

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



$$\begin{array}{rccc} \phi_1^{-1} : & \mathbb{C} & \longrightarrow & U_1 \\ & w = \frac{z_0}{z_1} & \mapsto & [z_0 : z_1] \end{array}$$

