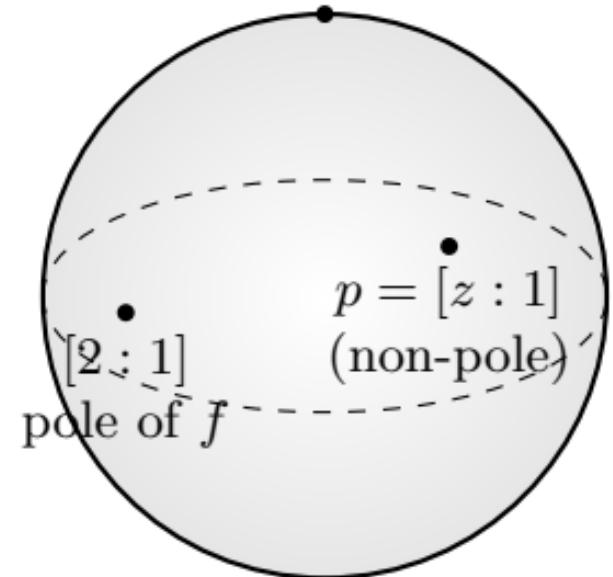


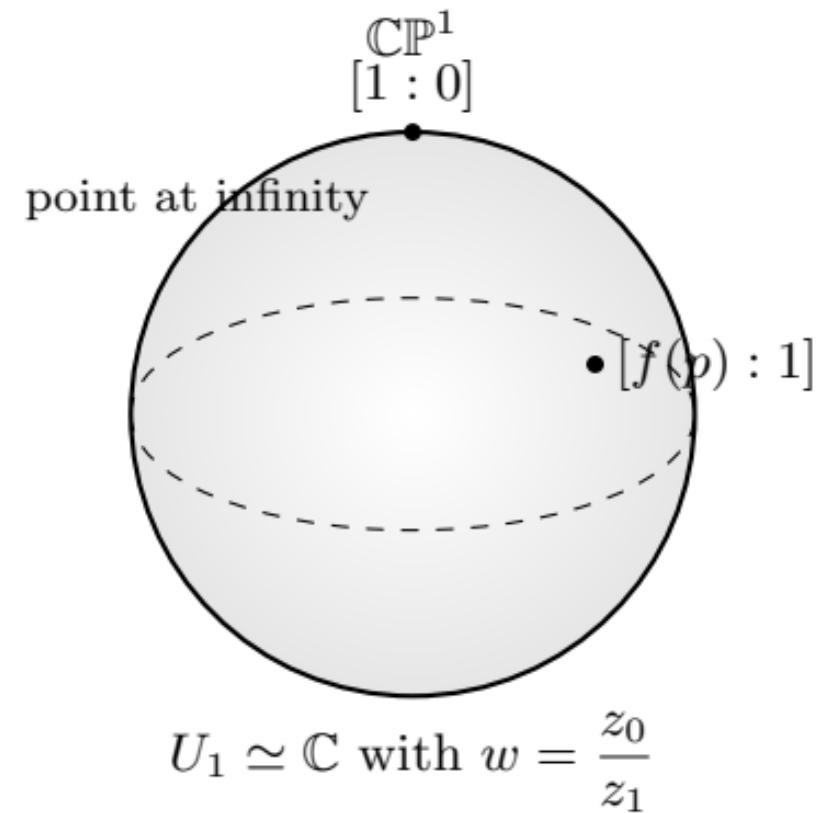
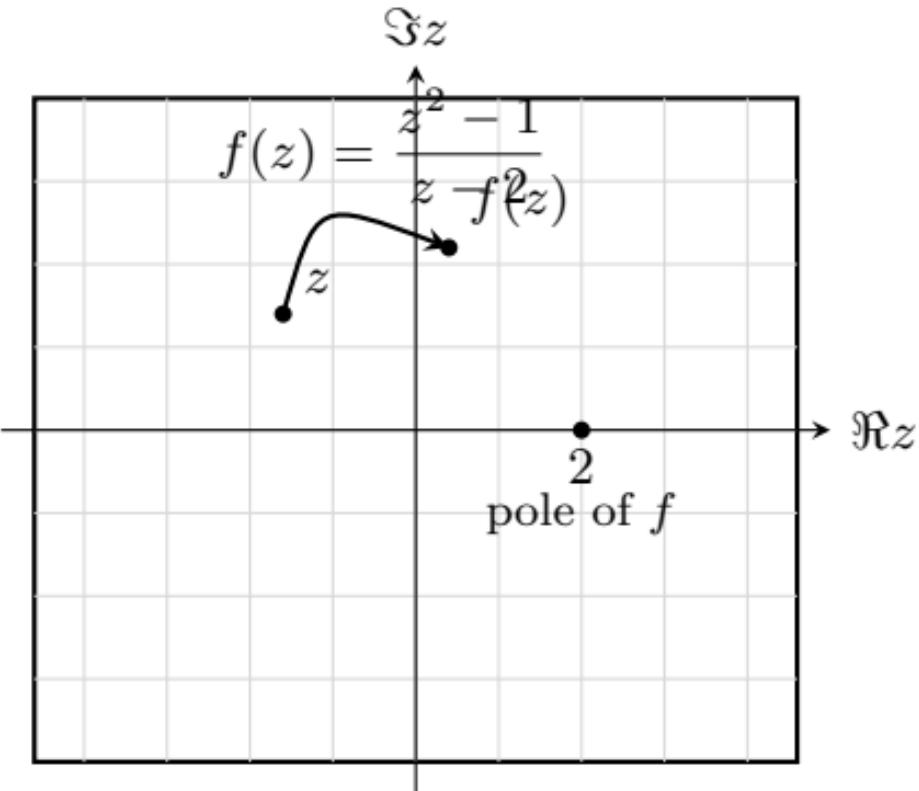
$$X = \mathbb{CP}^1$$

$$\infty = [1 : 0]$$



$$U_1 = \{[z_0 : z_1] \mid z_1 \neq 0\}$$

$\mathbb{C}$  (chart  $U_1$  via  $z = \frac{z_0}{z_1}$ )



$$U_1 \simeq \mathbb{C} \text{ with } w = \frac{z_0}{z_1}$$