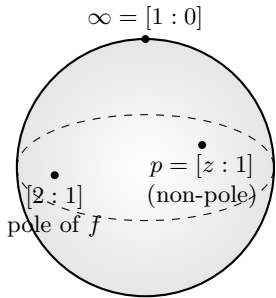
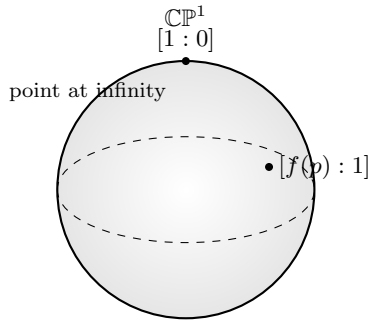
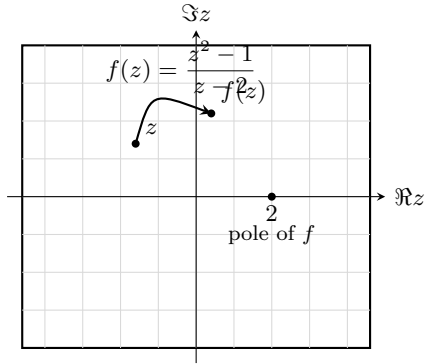


$$X = \mathbb{CP}^1$$



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

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



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