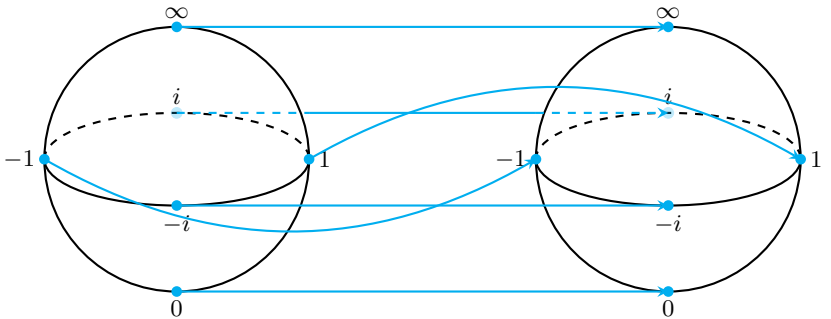
$R(z) = z$

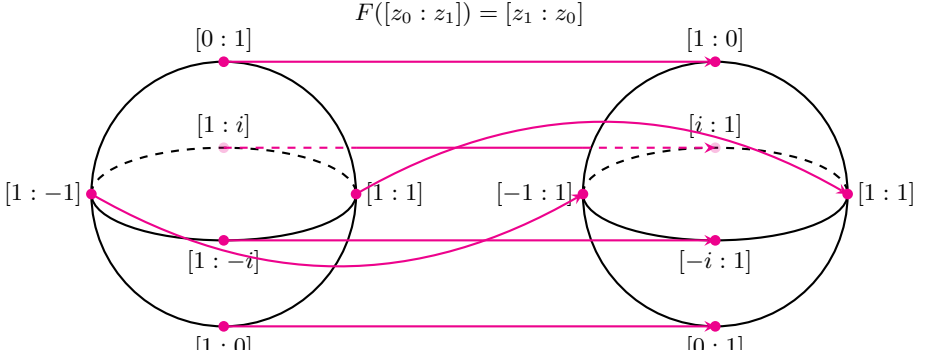


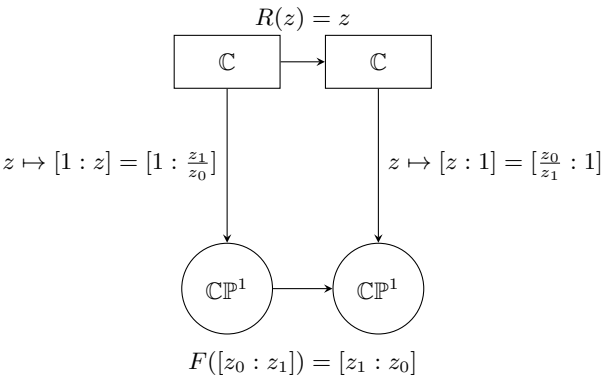
$$R(z) = z = \frac{z}{1} = \frac{P(z)}{Q(z)}$$

$$\frac{P(z_1/z_0)}{Q(z_1/z_0)} = \frac{z_1/z_0}{1} \text{ on } U_0$$

$$\frac{z_0 P(z_1/z_0)}{z_0 Q(z_1/z_0)} = \frac{z_1}{z_0} \text{ on } U_0$$

$F([z_0 : z_1]) = [z_1 : z_0]$



$U_0 = \{[z_0 : z_1] \in \mathbb{CP}^1 : z_0 \neq 0\}$ $\quad$ $U_1 = \{[z_0 : z_1] \in \mathbb{CP}^1 : z_1 \neq 0\}$

$R(z) = z \iff F([z_0 : z_1]) = [z_1 : z_0]$