

Compute as explicitly as possible  $\text{Aut}(U)$  for the following regions  $U \subset \mathbb{C}$ :

- $U = \{z \in \mathbb{C} \mid \text{Re}(z) > \text{Im}(z)\}$
- $U = \{z \in \mathbb{C} \mid \text{Im}(z) > -1\}$