## Worksheet 18

- 1. Prove that  $\mathbb{R} \cong \mathbb{R}_{>0}$ .
- 2. Prove that  $\mathbb{Z}/4\mathbb{Z} \cong U(5)$ .
- 3. Let  $H < S_4$  be  $H = \langle (12), (34) \rangle$ . Prove that  $\mathbb{Z}/2\mathbb{Z} \times \mathbb{Z}/2\mathbb{Z} \cong H$ .