## Abstract algebra I Homework 3

## B13902022 賴昱錡

Due: 1st October 2025

1)
(a)  $(\mathbb{Z}/15\mathbb{Z})^{\times} = \{\bar{1}, \bar{2}, \bar{4}, \bar{7}, \bar{8}, \bar{11}, \bar{13}, \bar{14}\} \text{ and } \mathbb{Z}/8\mathbb{Z} = \{\bar{0}, \bar{1}, \bar{2}, \bar{3}, \bar{4}, \bar{5}, \bar{6}, \bar{7}\}$ (b)
(c)
(d)
(e)
(f)
(g)
(h)

2)

- 3)
- (a)
- (b)

