

Section 2.1 Definitions and Examples (Part 1)

Definitions

P 1. List the identity element for the following groups. $(\mathbb{Z}, +)$, (\mathbb{Z}_n^\times) , $\text{GL}(2, \mathbb{Z}_5)$, $\text{SL}(2, \mathbb{Z}_7)$.

P 2. Show that $(\mathbb{Z}, +)$ is a group.