- 1. Prove $C \subseteq A \cap B \to C \subseteq A \wedge C \subseteq B$.
- 2. Prove $A \cup B \subseteq C \rightarrow A \subseteq C \land B \subseteq C$.
- 3. Prove $C \subseteq A B \rightarrow B \cap C = \emptyset$
- 4. Prove $\emptyset \subset A$.
- 5. Show, for $n \in \mathbb{Z}$, that if 2|n and 3|n then 6|n.
- 6. Show that if x and y are rational, then x + y is rational.