You may use any material in the book up to the point where the problem appears (including earlier problems)

page 11 [chapter 1, section 1], number 3
[Prove 1.2(b), on page 10]
Problem:
Show $A \cap (B - C) = (A \cap B) - (A \cap C)$

page 11 [chapter 1, section 1], number 4
Problem:
Show $\ominus$ is associative

page 12 [chapter 1, section 2], number 1
Problem:
Show there is a "definable" subset t of C such that not $t \in C$

page 14 [chapter 1, section 3], number 2
[Prove 3.1(b), on page 13]
Problem:
Show $B \cup \bigcap_{i \in I} A_i = \bigcap_{i \in I} (B \cup A_i)$

page 16 [chapter 1, section 4], number 3
[Prove 4.2(d), on page 16 itself, immediately above the problems]
Problem:
Prove $(A \cap B) \times (C \cap D) = (A \times C) \cap (B \times D)$

page 20, number 6
Problem:
Show $R | \bigcup_{i \in I} S_i = \bigcup_{i \in I} R | S_i$