

MA 351: (PART OF) ASSIGNMENT 1
DUE SEPTEMBER 11, 2013

For sets A , B , and C prove that

- (1) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.
- (2) $A \setminus (B \cap C) = (A \setminus B) \cup (A \setminus C)$
- (3) $A \times (B \cap C) = (A \times B) \cap (A \times C)$
- (4) $(A \times B) \setminus (A \times C) \subset A \times (B \setminus C)$.