知识点: 笛卡儿积

测试题 7.1 设 A, B, C, D 是任意集合,判断下列各等式是否成立,如果成立,答案选 "Y",否则选 "N".

- (1) $(A \cap B) \times (C \cap D) = (A \times C) \cap (B \times D)$
- (2) $(A \cup B) \times (C \cup D) = (A \times C) \cup (B \times D)$
- (3) $(A-B)\times(C-D)=(A\times C)-(B\times D)$
- (4) $A \cup (B \times C) = (A \cup B) \times (A \cup C)$
- (5) $A \times (B \cap C) = (A \times B) \cap (A \times C)$