

Exercise 2

1. Let A, B, and C be sets. Use membership table to show that

a) $(A - B) - C = (A - C) - (B - C)$

b) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$

2. Let A, B, and C be sets. Use Venn diagram to show that

$$(B - A) \cup (C - A) = (B \cup C) - A$$