

1 VennDiagrams

Please draw Venn-Diagrams which illustrate the following statements.

1. (Commutative property)

$$A \cup B = B \cup A$$

$$A \cap B = B \cap A$$

2. (Associative property)

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

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

3. (Distributive property)

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

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

Solution: