

Foundations of Mathematics

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Homework - 2

1. $A \cup B$

It is a special case of the Axiom of the Sum Set. It states that for any set X there exists a set $Y = \cup X$, the union of all elements of X .

2. $A \cup B = B \cup A$

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

4. $\neg(A \cup B) = \neg A \cap \neg B$