

Proofs Involving Sets #2 (Equality)

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Instructions. Prove the following.

1. $U \cap A = A$

2. $(A \cap B)^c = A^c \cup B^c$

3. $A \subseteq B \Rightarrow (A \cap B) = A$

4. $A \subseteq B \Rightarrow (A \cup B) = B$

5. $A^c \setminus B^c = B \setminus A$