Proofs Involving Sets #1

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Pat Rossi Name _____

Instructions. Prove the following.

1. $(A \setminus B) \subseteq (A \cup B)$

2. $A \cap B = A \Rightarrow A \subseteq B$

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

4. $A \subseteq B \Rightarrow B^c \subseteq A^c$

5. $(A \cap B) \subseteq A$

6. $A \subseteq (A \cup B)$