

MAT 25 Homework 2

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1. 1.2.3 (c)

Show that $(A \cup B)^c = A^c \cap B^c$ by demonstrating inclusion both ways.

Proof. We need to show two things: $(A \cup B)^c \subseteq A^c \cap B^c$ and $A^c \cap B^c \subseteq (A \cup B)^c$ \square