

Exercise 1. Let A, B, C be three sets. Prove De Morgan's laws for sets:

- (1) $A \setminus (B \cup C) = (A \setminus B) \cap (A \setminus C)$
- (2) $A \setminus (B \cap C) = (A \setminus B) \cup (A \setminus C)$

Solution.

- (1)
$$\begin{aligned} A \setminus (B \cup C) &= \{x \in A : x \notin B \cup C\} \\ &= \{x \in A : \sim (x \in B \text{ or } x \in C)\} \\ &= \{x \in A : x \notin B \text{ and } x \notin C\} \quad (\text{from De Morgan's first logic law}) \\ &= \{x \in A : x \notin B\} \cap \{x \in A : x \notin C\} \\ &= (A \setminus B) \cap (A \setminus C) \end{aligned}$$
- (2)
$$\begin{aligned} A \setminus (B \cap C) &= \{x \in A : x \notin B \cap C\} \\ &= \{x \in A : \sim (x \in B \text{ and } x \in C)\} \\ &= \{x \in A : x \notin B \text{ or } x \notin C\} \quad (\text{from De Morgan's second logic law}) \\ &= \{x \in A : x \notin B\} \cup \{x \in A : x \notin C\} \\ &= (A \setminus B) \cup (A \setminus C) \end{aligned}$$

Exercise 2. Let $f : A \rightarrow B$ be a function and $C, D \subseteq A$.

- (1) Prove the following:
 - (a) If $C \subseteq D$, then $f(C) \subseteq f(D)$.
 - (b) $f(C \cup D) = f(C) \cup f(D)$
- (2) Provide a concrete example of a function $f : A \rightarrow B$ and two sets $C, D \subseteq A$ such that $f(C \cap D) \neq f(C) \cap f(D)$.

Solution.

- (1) (a) Assume that $C \subseteq D$. Let y be an element of $f(C)$. Then there exists $x \in C$ such that $f(x) = y$. Since $C \subseteq D$ and $x \in C$, we obtain that $x \in D$. Since $y = f(x)$, it follows that $y \in f(D)$. This proves that $f(C) \subseteq f(D)$.
- (b) We first show that $f(C \cup D) \subseteq f(C) \cup f(D)$. Let y be an element of $f(C \cup D)$. Then there exists $x \in C \cup D$ such that $f(x) = y$. Since $x \in C \cup D$, we obtain that either $x \in C$ or $x \in D$. In case $x \in C$, since $y = f(x)$, we obtain that $y \in f(C)$. Similarly, in case $x \in D$, we obtain that $y \in f(D)$. In both cases, since $f(C) \subseteq f(C) \cup f(D)$ and $f(D) \subseteq f(C) \cup f(D)$, we obtain that $y \in f(C) \cup f(D)$. This proves that $f(C \cup D) \subseteq f(C) \cup f(D)$.
Conversely, we show that $f(C) \cup f(D) \subseteq f(C \cup D)$. Let y be an element of $f(C) \cup f(D)$. Then either $y \in f(C)$ or $y \in f(D)$. In case $y \in f(C)$, there exists $x \in C$ such that $f(x) = y$. Similarly, in case $y \in f(D)$, there exists $x \in D$ such that $f(x) = y$. In both cases, since $C \subseteq C \cup D$ and $D \subseteq C \cup D$, we obtain that $x \in C \cup D$ and so $y \in f(C \cup D)$. This proves that $f(C) \cup f(D) \subseteq f(C \cup D)$.

Math 242 Solution Manual

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