

**SECTION 2.2 Set Operations**

2. a)  $A \cap B$       b)  $A \cap \overline{B}$ , which is the same as  $A - B$       c)  $A \cup B$       d)  $\overline{A \cup B}$
4. Note that  $A \subseteq B$ .  
 a)  $\{a, b, c, d, e, f, g, h\} = B$       b)  $\{a, b, c, d, e\} = A$   
 c) There are no elements in  $A$  that are not in  $B$ , so the answer is  $\emptyset$ .      d)  $\{f, g, h\}$
6. a)  $A \cup \emptyset = \{x \mid x \in A \vee x \in \emptyset\} = \{x \mid x \in A \vee \mathbf{F}\} = \{x \mid x \in A\} = A$   
 b)  $A \cap U = \{x \mid x \in A \wedge x \in U\} = \{x \mid x \in A \wedge \mathbf{T}\} = \{x \mid x \in A\} = A$
8. a)  $A \cup A = \{x \mid x \in A \vee x \in A\} = \{x \mid x \in A\} = A$   
 b)  $A \cap A = \{x \mid x \in A \wedge x \in A\} = \{x \mid x \in A\} = A$
10. a)  $A - \emptyset = \{x \mid x \in A \wedge x \notin \emptyset\} = \{x \mid x \in A \wedge \mathbf{T}\} = \{x \mid x \in A\} = A$   
 b)  $\emptyset - A = \{x \mid x \in \emptyset \wedge x \notin A\} = \{x \mid \mathbf{F} \wedge x \notin A\} = \{x \mid \mathbf{F}\} = \emptyset$
12. We will show that these two sets are equal by showing that each is a subset of the other. Suppose  $x \in A \cup (A \cap B)$ . Then  $x \in A$  or  $x \in A \cap B$  by the definition of union. In the former case, we have  $x \in A$ , and in the latter case we have  $x \in A$  and  $x \in B$  by the definition of intersection; thus in any event,  $x \in A$ , so we have proved that the left-hand side is a subset of the right-hand side. Conversely, let  $x \in A$ . Then by the definition of union,  $x \in A \cup (A \cap B)$  as well. Thus we have shown that the right-hand side is a subset of the left-hand side.
14. Since  $A = (A - B) \cup (A \cap B)$ , we conclude that  $A = \{1, 5, 7, 8\} \cup \{3, 6, 9\} = \{1, 3, 5, 6, 7, 8, 9\}$ . Similarly  $B = (B - A) \cup (A \cap B) = \{2, 10\} \cup \{3, 6, 9\} = \{2, 3, 6, 9, 10\}$ .
16. a) If  $x$  is in  $A \cap B$ , then perforce it is in  $A$  (by definition of intersection).  
 b) If  $x$  is in  $A$ , then perforce it is in  $A \cup B$  (by definition of union).  
 c) If  $x$  is in  $A - B$ , then perforce it is in  $A$  (by definition of difference).  
 d) If  $x \in A$  then  $x \notin B - A$ . Therefore there can be no elements in  $A \cap (B - A)$ , so  $A \cap (B - A) = \emptyset$ .  
 e) The left-hand side consists precisely of those things that are either elements of  $A$  or else elements of  $B$  but not  $A$ , in other words, things that are elements of either  $A$  or  $B$  (or, of course, both). This is precisely the definition of the right-hand side.
18. a) Suppose that  $x \in A \cup B$ . Then either  $x \in A$  or  $x \in B$ . In either case, certainly  $x \in A \cup B \cup C$ . This establishes the desired inclusion.  
 b) Suppose that  $x \in A \cap B \cap C$ . Then  $x$  is in all three of these sets. In particular, it is in both  $A$  and  $B$  and therefore in  $A \cap B$ , as desired.  
 c) Suppose that  $x \in (A - B) - C$ . Then  $x$  is in  $A - B$  but not in  $C$ . Since  $x \in A - B$ , we know that  $x \in A$  (we also know that  $x \notin B$ , but that won't be used here). Since we have established that  $x \in A$  but  $x \notin C$ , we have proved that  $x \in A - C$ .  
 d) To show that the set given on the left-hand side is empty, it suffices to assume that  $x$  is some element in that set and derive a contradiction, thereby showing that no such  $x$  exists. So suppose that  $x \in (A - C) \cap (C - B)$ . Then  $x \in A - C$  and  $x \in C - B$ . The first of these statements implies by definition that  $x \notin C$ , while the second implies that  $x \in C$ . This is impossible, so our proof by contradiction is complete.  
 e) To establish the equality, we need to prove inclusion in both directions. To prove that  $(B - A) \cup (C - A) \subseteq (B \cup C) - A$ , suppose that  $x \in (B - A) \cup (C - A)$ . Then either  $x \in (B - A)$  or  $x \in (C - A)$ . Without loss of

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