SECTION 2.2 Set Operations

- a) A∩B
 b) A∩B, which is the same as A−B
 c) A∪B
 d) A∪B
- Note that A ⊆ 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 O.
 d) {f, g, h}
- a) A∪O = {x | x ∈ A ∨ x ∈ O} = {x | x ∈ A ∨ F} = {x | x ∈ A} = A
 - b) $A \cap U = \{x \mid x \in A \land x \in U\} = \{x \mid x \in A \land T\} = \{x \mid x \in A\} = A$
- 8. a) $A \cup A = \{x \mid x \in A \lor x \in A\} = \{x \mid x \in A\} = A$
 - b) $A \cap A = \{x \mid x \in A \land x \in A\} = \{x \mid x \in A\} = A$
- 10. a) $A \Theta = \{x \mid x \in A \land x \notin \Theta\} = \{x \mid x \in A \land T\} = \{x \mid x \in A\} = A$
 - b) $\emptyset A = \{x \mid x \in \emptyset \land x \notin A\} = \{x \mid F \land x \notin A\} = \{x \mid F\} = \emptyset$
- 12. We will show that these two sets are equal by showing that each is a subset of the other. Suppose x ∈ A ∪ (A ∩ B). Then x ∈ A or x ∈ A ∩ B by the definition of union. In the former case, we have x ∈ A, and in the latter case we have x ∈ A and x ∈ B by the definition of intersection; thus in any event, x ∈ A, so we have proved that the left-hand side is a subset of the right-hand side. Conversely, let x ∈ A. Then by the definition of union, x ∈ A ∪ (A ∩ 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) ∪ (A ∩ B), we conclude that A = {1,5,7,8} ∪ {3,6,9} = {1,3,5,6,7,8,9}. Similarly B = (B − A) ∪ (A ∩ B) = {2,10} ∪ {3,6,9} = {2,3,6,9,10}.
- 16. a) If x is in A ∩ B, then perforce it is in A (by definition of intersection).
 - b) If x is in A, then perforce it is in A∪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 ∈ A then x ∉ B − A. Therefore there can be no elements in A ∩ (B − A), so A ∩ (B − A) = Ø.
 - 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 ∈ A ∪ B. Then either x ∈ A or x ∈ B. In either case, certainly x ∈ A ∪ B ∪ C. This establishes the desired inclusion.
 - b) Suppose that x ∈ A ∩ B ∩ C. Then x is in all three of these sets. In particular, it is in both A and B and therefore in A ∩ 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) ∪ (C − A) ⊆ (B ∪ C) − A, suppose that x ∈ (B − A) ∪ (C − A). Then either x ∈ (B − A) or x ∈ (C − A). Without loss of

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