

10. The inequality follows from the obvious fact that  $A \cap B \subseteq A \cup B$ . Equality can hold only if there are no elements in either  $A$  or  $B$  that are not in both  $A$  and  $B$ , and this can happen only if  $A = B$ .
12. Since  $\overline{A \cap B} = \overline{(A \cup B)^c}$ , we are asked to show that  $|\overline{(A \cup B)^c}| = |U| - (|A| + |B| - |A \cap B|)$ . This follows immediately from the facts that  $|\overline{X}| = |U| - |X|$  (which is clear from the definitions) and (see the discussion following Example 5 in Section 2.2) that  $|A \cup B| = |A| + |B| - |A \cap B|$ .
14. Define a function  $g : f(S) \rightarrow S$  by choosing, for each element  $x$  in  $f(S)$ , an element  $g(x) \in S$  such that  $f(g(x)) = x$ . Clearly  $g$  is one-to-one, so  $|f(S)| \leq |S|$ . Note that we do not need the hypothesis that  $A$  and  $B$  are finite.
16. a) We are given that  $f$  is one-to-one, and we must show that  $S_f$  is one-to-one. So suppose that  $X_1 \neq X_2$ , where these are subsets of  $A$ . We have to show that  $S_f(X_1) \neq S_f(X_2)$ . Without loss of generality there is an element  $a \in X_1 - X_2$ . This means that  $f(a) \in S_f(X_1)$ . If  $f(a)$  were also an element of  $S_f(X_2)$ , then we would need an element  $a' \in X_2$  such that  $f(a') = f(a)$ . But since  $f$  is one-to-one, this forces  $a' = a$ , which is impossible, because  $a \notin X_2$ . Therefore  $f(a) \in S_f(X_1) - S_f(X_2)$ , so  $S_f(X_1) \neq S_f(X_2)$ .
- b) We are given that  $f$  is onto, and we must show that  $S_f$  is onto. So suppose that  $Y \subseteq B$ . We have to find  $X \subseteq A$  such that  $S_f(X) = Y$ . Let  $X = \{x \in A \mid f(x) \in Y\}$ . We claim that  $S_f(X) = Y$ . Clearly  $S_f(X) \subseteq Y$ . To see that  $Y \subseteq S_f(X)$ , suppose that  $b \in Y$ . Then because  $f$  is onto, there is some  $a \in A$  such that  $f(a) = b$ . By our definition of  $X$ ,  $a \in X$ . Therefore by definition  $b \in S_f(X)$ .
- c) We are given that  $f$  is onto, and we must show that  $S_{f^{-1}}$  is one-to-one. So suppose that  $Y_1 \neq Y_2$ , where these are subsets of  $B$ . We have to show that  $S_{f^{-1}}(Y_1) \neq S_{f^{-1}}(Y_2)$ . Without loss of generality there is an element  $b \in Y_1 - Y_2$ . Because  $f$  is onto, there is an  $a \in A$  such that  $f(a) = b$ . Therefore  $a \in S_{f^{-1}}(Y_1)$ . But we also know that  $a \notin S_{f^{-1}}(Y_2)$ , because if  $a$  were an element of  $S_{f^{-1}}(Y_2)$ , then we would have  $b = f(a) \in Y_2$ , contrary to our choice of  $b$ . The existence of this  $a$  shows that  $S_{f^{-1}}(Y_1) \neq S_{f^{-1}}(Y_2)$ .
- d) We are given that  $f$  is one-to-one, and we must show that  $S_{f^{-1}}$  is onto. So suppose that  $X \subseteq A$ . We have to find  $Y \subseteq B$  such that  $S_{f^{-1}}(Y) = X$ . Let  $Y = S_f(X)$ . In other words,  $Y = \{f(x) \mid x \in X\}$ . We must show that  $S_{f^{-1}}(Y) = X$ , which means that we must show that  $\{u \in A \mid f(u) \in \{f(x) \mid x \in X\}\} = X$  (we changed the dummy variable to  $u$  for clarity). That the right-hand side is a subset of the left-hand side is immediate, because if  $u \in X$ , then  $f(u)$  is an  $f(x)$  for some  $x \in X$ . Conversely, suppose that  $u$  is in the left-hand side. Thus  $f(u) = f(x_0)$  for some  $x_0 \in X$ . But because  $f$  is one-to-one, we know that  $u = x_0$ ; that is  $u \in X$ .
- e) This follows immediately from the earlier parts, because to be a one-to-one correspondence means to be one-to-one and onto.
18. If  $n$  is even, then  $n/2$  is an integer, so  $\lceil n/2 \rceil + \lfloor n/2 \rfloor = (n/2) + (n/2) = n$ . If  $n$  is odd, then  $\lceil n/2 \rceil = (n+1)/2$  and  $\lfloor n/2 \rfloor = (n-1)/2$ , so again the sum is  $n$ .
20. This is certainly true if either  $x$  or  $y$  is an integer, since then this equation is equivalent to the identity (4b) in Table 1 of Section 2.3. Otherwise, write  $x$  and  $y$  in terms of their integer and fractional parts:  $x = n + \epsilon$  and  $y = m + \delta$ , where  $n = \lfloor x \rfloor$ ,  $0 < \epsilon < 1$ ,  $m = \lfloor y \rfloor$ , and  $0 < \delta < 1$ . If  $\delta + \epsilon > 1$ , then the equation is true, since both sides equal  $m + n + 2$ ; if  $\delta + \epsilon \leq 1$ , then the equation is false, since the left-hand side equals  $m + n + 1$ , but the right-hand side equals  $m + n + 2$ . To summarize: the equation is true if and only if either at least one of  $x$  and  $y$  is an integer or the sum of the fractional parts of  $x$  and  $y$  exceeds 1.
22. The values of the floor and ceiling function will depend on whether their arguments are integral or not. So there seem to be two cases here. First let us suppose that  $n$  is even. Then  $n/2$  is an integer, and  $n^2/4$  is also an integer, so the equation is a simple algebraic fact. The second case is harder. Suppose that  $n$  is

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