

2. Part (b) Let  $f$  be a bijection of  $N_m$  onto  $A$  and let  $C = \{f(k)\}$  for some  $k \in N_m$ . Define  $g$  on  $N_{m-1}$  by  $g(i) := f(i)$  for  $i = 1, \dots, k-1$ , and  $g(i) := f(i+1)$  for  $i = k, \dots, m-1$ . Then  $g$  is a bijection of  $N_{m-1}$  onto  $A \setminus C$ . (Why?) Part (c) First note that the union of two finite sets is a finite set. Now note that if  $C/B$  were finite, then  $C = B \cup (C \setminus B)$  would also be finite.
3. (a) The element 1 can be mapped into any of the three elements of  $T$ , and 2 can then be mapped into any of the two remaining elements of  $T$ , after which the element 3 can be mapped into only one element of  $T$ . Hence there are  $6 = 3 \cdot 2 \cdot 1$  different injections of  $S$  into  $T$ .  
 (b) Suppose  $a$  maps into 1. If  $b$  also maps into 1, then  $c$  must map into 2; if  $b$  maps into 2, then  $c$  can map into either 1 or 2. Thus there are 3 surjections that map  $a$  into 1, and there are 3 other surjections that map  $a$  into 2.
4.  $f(n) := 2n + 13, n \in \mathbb{N}$ .
5.  $f(1) := 0, f(2n) := n, f(2n+1) := -n$  for  $n \in \mathbb{N}$ .
6. The bijection of Example 1.3.7(a) is one example. Another is the shift defined by  $f(n) := n + 1$  that maps  $\mathbb{N}$  onto  $\mathbb{N} \setminus \{1\}$ .
7. If  $T_1$  is denumerable, take  $T_2 = \mathbb{N}$ . If  $f$  is a bijection of  $T_1$  onto  $T_2$ , and if  $g$  is a bijection of  $T_2$  onto  $\mathbb{N}$ , then (by Exercise 1.1.21)  $g \circ f$  is a bijection of  $T_1$  onto  $\mathbb{N}$ , so that  $T_1$  is denumerable.
8. Let  $A_n := \{n\}$  for  $n \in \mathbb{N}$ , so  $\bigcup A_n = \mathbb{N}$ .
9. If  $S \cap T = \emptyset$  and  $f: \mathbb{N} \rightarrow S, g: \mathbb{N} \rightarrow T$  are bijections onto  $S$  and  $T$ , respectively, let  $h(n) := f((n+1)/2)$  if  $n$  is odd and  $h(n) := g(n/2)$  if  $n$  is even. It is readily seen that  $h$  is a bijection of  $\mathbb{N}$  onto  $S \cup T$ ; hence  $S \cup T$  is denumerable. What if  $S \cap T \neq \emptyset$ ?
10. (a)  $m + n - 1 = 9$  and  $m = 6$  imply  $n = 4$ . Then  $h(6, 4) = \frac{1}{2} \cdot 8 \cdot 9 + 6 = 42$ .  
 (b)  $h(m, 3) = \frac{1}{2}(m+1)(m+2) + m = 19$ , so that  $m^2 + 5m - 36 = 0$ . Thus  $m = 4$ .
11. (a)  $\mathcal{P}(\{1, 2\}) = \{\emptyset, \{1\}, \{2\}, \{1, 2\}\}$  has  $2^2 = 4$  elements.  
 (b)  $\mathcal{P}(\{1, 2, 3\})$  has  $2^3 = 8$  elements.  
 (c)  $\mathcal{P}(\{1, 2, 3, 4\})$  has  $2^4 = 16$  elements.
12. Let  $S_{n+1} := \{x_1, \dots, x_n, x_{n+1}\} = S_n \cup \{x_{n+1}\}$  have  $n+1$  elements. Then a subset of  $S_{n+1}$  either (i) contains  $x_{n+1}$ , or (ii) does not contain  $x_{n+1}$ . The induction hypothesis implies that there are  $2^n$  subsets of type (i), since each such subset is the union of  $\{x_{n+1}\}$  and a subset of  $S_n$ . There are also  $2^n$  subsets of type (ii). Thus there is a total of  $2^n + 2^n = 2 \cdot 2^n = 2^{n+1}$  subsets of  $S_{n+1}$ .
13. For each  $m \in \mathbb{N}$ , the collection of all subsets of  $N_m$  is finite. (See Exercise 12.) Every finite subset of  $\mathbb{N}$  is a subset of  $N_m$  for a sufficiently large  $m$ . Therefore Theorem 1.3.12 implies that  $\mathcal{F}(\mathbb{N}) = \bigcup_{m=1}^{\infty} \mathcal{P}(N_m)$  is countable.

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