

Solutions Manual for Mathematical Proofs A Transition to Advanced Mathematics 3rd Edition by Chartrand

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## Exercises for Chapter 2

### Exercises for Section 2.1: Statements

- 2.1 (a) A false statement.  
 (b) A true statement.  
 (c) Not a statement.  
 (d) Not a statement (an open sentence). (e) Not a statement.  
 (f) Not a statement (an open sentence). (g) Not a statement.
- 2.2 (a) A true statement since  $A = \{3n - 2 : n \in \mathbf{N}\}$  and so  $3 \cdot 9 - 2 = 25 \in A$ .  
 (b) A false statement. Starting with the 3rd term in  $D$ , each element is the sum of the two preceding terms. Therefore, all terms following 21 exceed 33 and so  $33 \notin D$ .  
 (c) A false statement since  $3 \cdot 8 - 2 = 22 \notin A$ .  
 (d) A true statement since every prime except 2 is odd.  
 (e) A false statement since  $B$  and  $D$  consist only of integers. (f) A false statement since 53 is prime.
- 2.3 (a) False.  $\emptyset$  has no elements. (b) True.  
 (c) True.  
 (d) False.  $\{\emptyset\}$  has  $\emptyset$  as its only element. (e) True.  
 (f) False. 1 is not a set.
- 2.4 (a)  $x = -2$  and  $x = 3$ .  
 (b) All  $x \in \mathbf{R}$  such that  $x = -2$  and  $x = 3$ .
- 2.5 (a)  $\{x \in \mathbf{Z} : x \geq 2\}$   
 (b)  $\{x \in \mathbf{Z} : x \leq 2\}$
- 2.6 (a)  $A$  can be any of the sets  $\emptyset, \{1\}, \{2\}, \{1, 2\}$ , that is,  $A$  is any subset of  $\{1, 2, 4\}$  that does not contain 4.  
 (b)  $A$  can be any of the sets  $\{1, 4\}, \{2, 4\}, \{1, 2, 4\}, \{4\}$ , that is,  $A$  is any subset of  $\{1, 2, 4\}$  that contains 4.

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