

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  $A = \{3n - 2 : n \in \mathbb{N}\}$  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  $x \in \mathbb{R}$  such that  $x = -2$  and  $x = 3$ .
- 2.5 (a)  $\{x \in \mathbb{Z} : x \geq 2\}$   
 (b)  $\{x \in \mathbb{Z} : x \leq 2\}$
- 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.

# A Transition To Advanced Mathematics 6th Edition Solutions Manual

**Liyong Dong**



## **A Transition To Advanced Mathematics 6th Edition Solutions Manual:**

A Discrete Transition to Advanced Mathematics Bettina Richmond, Thomas Richmond, 2023-08-25 This textbook bridges the gap between lower division mathematics courses and advanced mathematical thinking Featuring clear writing and appealing topics the book introduces techniques for writing proofs in the context of discrete mathematics By illuminating the concepts behind techniques the authors create opportunities for readers to sharpen critical thinking skills and develop mathematical maturity Beginning with an introduction to sets and logic the book goes on to establish the basics of proof techniques From here chapters explore proofs in the context of number theory combinatorics functions and cardinality and graph theory A selection of extension topics concludes the book including continued fractions infinite arithmetic and the interplay among Fibonacci numbers Pascal's triangle and the golden ratio A Discrete Transition to Advanced Mathematics is suitable for an introduction to proof course or a course in discrete mathematics Abundant examples and exercises invite readers to get involved and the wealth of topics allows for course customization and further reading This new edition has been expanded and modernized throughout New features include a chapter on combinatorial geometry a more in depth treatment of counting and over 365 new exercises

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