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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.

Mathematical Proofs Chartrand Solutions Manual

**Gary Chartrand, Albert D.
Polimeni, Ping Zhang**



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Computing and Modelling P. V. Subrahmanyam, V. Antony Vijesh, Balasubramaniam Jayaram, Prakash Veeraraghavan, 2023-02-02 This book contains select papers on mathematical analysis and modeling discrete mathematics fuzzy sets and soft computing All the papers were presented at the international conference on FIM28 SCMSPS20 virtually held at Sri Sivasubramaniya Nadar SSN College of Engineering Chennai India and Stella Maris College Autonomous Chennai from November 23 27 2020 The conference was jointly held with the support of the Forum for Interdisciplinary Mathematics

Both the invited articles and submitted papers were broadly grouped under three heads Part 1 on analysis and modeling six chapters Part 2 on discrete mathematics and applications six chapters and Part 3 on fuzzy sets and soft computing three chapters

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