Chapter 1

Solutions to Selected Exercises

Section 1.1

2. $\{2, 4\}$ 3. $\{7, 10\}$ 5. $\{2, 3, 5, 6, 8, 9\}$ 6. $\{1, 3, 5, 7, 9, 10\}$

8. A 9. $\emptyset$ 11. B 12. $\{1, 4\}$ 14. $\{1\}$

15. $\{2, 3, 4, 5, 6, 7, 8, 9, 10\}$ 18. 1 19. 3

22. We find that $B = \{2, 3\}$. Since A and B have the same elements, they are equal.

23. Let $x \in A$. Then $x = 1, 2, 3$. If $x = 1$, since $1 \in \mathbf{Z}^+$ and $1^2 < 10$, then $x \in B$. If $x = 2$, since $2 \in \mathbf{Z}^+$ and $2^2 < 10$, then $x \in B$. If $x = 3$, since $3 \in \mathbf{Z}^+$ and $3^2 < 10$, then $x \in B$. Thus if $x \in A$, then $x \in B$.

Now suppose that $x \in B$. Then $x \in \mathbf{Z}^+$ and $x^2 < 10$. If $x \geq 4$, then $x^2 > 10$ and, for these values of x, $x \notin B$. Therefore $x = 1, 2, 3$. For each of these values, $x^2 < 10$ and x is indeed in B. Also, for each of the values $x = 1, 2, 3$, $x \in A$. Thus if $x \in B$, then $x \in A$. Therefore $A = B$.

26. Since $(-1)^3 - 2(-1)^2 - (-1) + 2 = 0$, $-1 \in B$. Since $-1 \notin A$, $A \neq B$.

27. Since $3^2 - 1 > 3$, $3 \notin B$. Since $3 \in A$, $A \neq B$.   30. Equal   31. Not equal

34. Let $x \in A$. Then $x = 1, 2$. If $x = 1$,

$$x^3 - 6x^2 + 11x = 1^3 - 6 \cdot 1^2 + 11 \cdot 1 = 6.$$

Thus $x \in B$. If $x = 2$,

$$x^3 - 6x^2 + 11x = 2^3 - 6 \cdot 2^2 + 11 \cdot 2 = 6.$$

Again $x \in B$. Therefore $A \subseteq B$.

35. Let $x \in A$. Then $x = (1, 1)$ or $x = (1, 2)$. In either case, $x \in B$. Therefore $A \subseteq B$.

38. Since $(-1)^3 - 2(-1)^2 - (-1) + 2 = 0$, $-1 \in A$. However, $-1 \notin B$. Therefore A is not a subset of B.

39. Consider 4, which is in A. If $4 \in B$, then $4 \in A$ and $4 + m = 8$ for some $m \in C$. However, the only value of m for which $4 + m = 8$ is $m = 4$ and $4 \notin C$. Therefore $4 \notin B$. Since $4 \in A$ and $4 \notin B$, A is not a subset of B.

1

Discrete Mathematics Liu Solution Manual

Vitor Balestro,Horst Martini,Ralph Teixeira

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Solutions Manual to Accompany Elements of Discrete Mathematics Chung Laung Liu,1977 **Solutions Manual to Accompany Elements of Discrete Mathematics, 2nd Ed** Chung Laung Liu,Hon Wai Leong,1990 Solutions Manual to Accompany Elements of Discrete Mathematics Chung Laung Liu,1985 *Convexity from the Geometric Point of View: Exercises and Solutions* Vitor Balestro,Horst Martini,Ralph Teixeira,2025-08-04 This book provides the solutions to all 347 exercises contained in the text Convexity from the Geometric Point of View published in the same Cornerstones series All these exercises are restated and numbered analogously to those in the original text The corresponding solutions follow each exercise Besides the discussion of all solutions some additional facts about the main text are sprinkled throughout Sections of further reading are posted to the ends of each chapter supplying the reader with background literature to selected notions and tools that play a role in the exercises and or solutions to the chapter The original text gives a comprehensive introduction to the common core of convex geometry and is suitable as a primary text for courses in convex geometry and in discrete geometry including polytopes Additionally it can be used as a single reference for a complete introduction to convex geometry The content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field various subfields and interesting connections to neighboring disciplines Mainly directed to graduate and advanced undergraduates the original text is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra The same is true for this book of solutions **Statistical Meso-Mechanics of Damage and Failure: How Microdamage Induces Disaster** Yilong Bai,Mengfen Xia,Fujiu Ke,2019-09-03 This book introduces a trans scale framework necessary for the physical understanding of breakdown behaviors and presents some new paradigm to clarify the mechanisms underlying the trans scale processes The book which is based on the interaction of mechanics and statistical physics will help to deepen the understanding of how microdamage induces disaster and benefit the forecasting of the occurrence of catastrophic rupture It offers notes and problems in each part as interesting background and illustrative exercises Readers of the book would be graduate students researchers engineers working on civil mechanical and geo engineering etc However people with various background but interested in disaster reduction and forecasting like applied physics geophysics seismology etc may also be interested in the book

Discrete Mathematics and Symmetry Angel Garrido,2020-03-05 Some of the most beautiful studies in Mathematics are related to Symmetry and Geometry For this reason we select here some contributions about such aspects and Discrete Geometry As we know Symmetry in a system means invariance of its elements under conditions of transformations When we consider network structures symmetry means invariance of adjacency of nodes under the permutations of node set The graph isomorphism is an equivalence relation on the set of graphs Therefore it partitions the class of all graphs into equivalence classes The underlying idea of isomorphism is that some objects have the same structure if we omit the individual character

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