

SOLUTIONS FOR PART I

I. NUMBERS, SETS, AND FUNCTIONS

1.1. “We have at least four times as many chairs as tables.” The number of chairs (c) is at least (\geq) four times the number of tables (t). Hence $c \geq 4t$.

1.2. *Fill in the blanks.* The equation $x^2 + bx + c = 0$ has exactly one solution when $b^2 = 4c$, and it has no solutions when $b^2 < 4c$. These statements follow from the quadratic formula.

1.3. Given that $x + y = 100$, the maximum value of xy is 2500. By the AGM Inequality, $xy \leq (\frac{x+y}{2})^2 = (\frac{100}{2})^2 = 2500$. This is achieved by $x = y = 50$.

1.4. The square has the largest area among all rectangles with a given perimeter. With side-lengths x, y and perimeter p , we have $x + y = p/2$. By the AGM Inequality, $xy \leq (\frac{x+y}{2})^2 = (p/4)^2$. The bound is achieved with equality when $x = y$, which is the case of a square.

1.5. Translation of “The temperature was 10° C and increased by 20° C.” “The temperature was 50° F and increased by 36° F. (One converts a change of 20 degrees C to a change of 36 degrees F, not to a temperature of 68 degrees.)

1.6. *Temperature scales.* If f denotes the current temperature in Fahrenheit degrees and c denotes the current temperature in Celsius degrees, then we always have $f = (9/5)c + 32$.

a) Equality in the values occurs at -40 degrees Fahrenheit, since -40 is the solution to $f = (9/5)f + 32$.

b) Equal magnitude with opposite signs occurs at $80/7$ degrees Fahrenheit, since $80/7$ is the solution to $f = (9/5)(-f) + 32$.

c) The Fahrenheit value is twice the Celsius value of 320 degrees Fahrenheit, since 320 is the solution to $f = (9/5)(f/2) + 32$.

1.7. *Correction of “If x and y are nonzero real numbers and $x > y$, then $(-1/x) > (-1/y)$.”* If y is negative and x is positive, then $-1/x$ is negative and $-1/y$ is positive, so $(-1/x) < (-1/y)$.

Adding the condition $y > 0$ makes the statement true. If now x is negative, then $(-1/x) > 0 > (-1/y)$. If now x is also positive, then $1/x < 1/y$, and multiplying by -1 yields the desired inequality.

In fact, the statement is true whenever $y > 0$ or $x < 0$, which is a more general situation than $y > 0$.

1.8. *Simpson’s Paradox.* The tables below confirm the paradox. The explanation is that the bulk of the men are in the afternoon class, where

receiving an A is easier, while half of the women come from each class. This makes it easier on average for men to receive A grades.

A grades	Men	Women	A grades	Men	Women
Morning	5/10	2/9	Morning	.50	.22
Afternoon	9/14	6/9	Afternoon	.64	.67
Total	11/24	8/18	Total	.48	.44

1.9. *Percentage changes.* In either case, (30% decline and then 33% rise) or (20% rise and then 15% decline), the original amount is multiplied by $.984 = .80 \cdot 1.23 = 1.20 \cdot .82 = .984$, producing a loss.

1.10. If 25% more Ph.D. degrees are produced than the economy can absorb, then there is a 1 in 5 chance of underemployment. The economy can absorb x Ph.D’s, but $(5/4)x$ are produced. The fraction unused is $\frac{5(5/4)x - x}{5(5/4)x} = \frac{1}{5}$.

1.11. *Promotional discount.* When a 15% discount is applied to an amount x , the actual cost is $.85x$. When 5% tax is computed on an amount y , the tax is $.05y$, and the paid total is $1.05y$. If the price of the item is z , then applying the discount before the tax yields a total cost of $1.05(.85z)$. Applying the tax first yields a total cost of $.85(1.05z)$. By the commutativity of multiplication, these are equal.

1.12. *Installment plan.* If the first of thirteen payments toward \$1000 is half the others, then the total will be 12.5 times the usual payment. We set $12.5x = 1000$ to obtain \$80 as the regular payment and \$40 as the first payment.

1.13. If $A = \{2k - 1; k \in \mathbb{Z}\}$ and $B = \{2k + 1; k \in \mathbb{Z}\}$, then $A = B$. If $n = 2k - 1 \in A$ for $k \in \mathbb{Z}$, then $n = 2(k - 1) + 1$. Since $k - 1 \in \mathbb{Z}$, we have $n \in B$. Similarly, $n = 2k + 1$ when $k \in \mathbb{Z}$ yields $n = 2(k + 1) - 1$, and thus $n \in B$ implies $n \in A$.

1.14. *Is $b \cap (c, d)$ using set difference.* If $a < b < c < d$, then $(a, b) \cup (c, d)$ consists of all numbers in the closed interval $[a, d]$ except those between b and c . Thus $(a, b) \cup (c, d) = [a, d] - (b, c)$.

1.15. *For sets, $A - B = B - A$ if and only if $A = B$.* If $A = B$, then both differences are empty. Conversely, each element of $A - B$ is not in B and hence not in $B - A$. Similarly, no element of $B - A$ belongs to $A - B$. Hence equality requires that both differences are empty, and thus that $A = B$.

1.16. *Iteration of the Penny Problem operation.*
 $5 \rightarrow 41 \rightarrow 32 \rightarrow 221 \rightarrow 311 \rightarrow 32$, reaching a cycle of length 3.
 $6 \rightarrow 51 \rightarrow 42 \rightarrow 321 \rightarrow 312$, reaching a fixed point.

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Table of Contents Mathematical Thinking Problem Solving And Proofs Solution Manual 3

1. Understanding the eBook Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - The Rise of Digital Reading Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Personalized Recommendations
 - Mathematical Thinking Problem Solving And Proofs Solution Manual 3 User Reviews and Ratings
 - Mathematical Thinking Problem Solving And Proofs Solution Manual 3 and Bestseller Lists
5. Accessing Mathematical Thinking Problem Solving And Proofs Solution Manual 3 Free and Paid eBooks
 - Mathematical Thinking Problem Solving And Proofs Solution Manual 3 Public Domain eBooks
 - Mathematical Thinking Problem Solving And Proofs Solution Manual 3 eBook Subscription Services

- Mathematical Thinking Problem Solving And Proofs Solution Manual 3 Budget-Friendly Options
- 6. Navigating Mathematical Thinking Problem Solving And Proofs Solution Manual 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Thinking Problem Solving And Proofs Solution Manual 3 Compatibility with Devices
 - Mathematical Thinking Problem Solving And Proofs Solution Manual 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Highlighting and Note-Taking Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Interactive Elements Mathematical Thinking Problem Solving And Proofs Solution Manual 3
- 8. Staying Engaged with Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Thinking Problem Solving And Proofs Solution Manual 3
- 9. Balancing eBooks and Physical Books Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Thinking Problem Solving And Proofs Solution Manual 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Setting Reading Goals Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Fact-Checking eBook Content of Mathematical Thinking Problem Solving And Proofs Solution Manual 3
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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