SOLUTIONS FOR PART I

1. 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 at 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	3/10	2/9		Morning	.30	.22
Afternoon	9/14	6/9		Afternoon	.64	.67
Total	11/24	8/18		Total	.46	.44

1.9. *Percentage changes.* In either case, (20% decline and then 23% rise) or (20% rise and then 18% decline), the original amount is multiplied by .984 = .80 · 1.23 = 1.20 · .82 = .984, producing a loss.

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

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

1.14. $[a, b] \cup [c, d]$ *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.*

$$5 \to 41 \to 32 \to 221 \to 311 \to 32, \text{ reaching a cycle of length 3.}$$
$$6 \to 51 \to 42 \to 321 \to 312, \text{ reaching a fixed point.}$$

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Roman Wölfel

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