# Mtahematical Thinking Problem Solving and Proofs 2nd Edition DAngelo SOLUTIONS MANUAL

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# 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 (≥) four times the number of tables (r). Hence c ≥ 4r.
- 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,  $xy \le {n \choose 2}^2 = {n \choose 2}^2 = 2500$ . This is achieved by x = y = 50.
- 1.4. The square has the largest area among all recrangles with a given perimeter. With side-lengths x<sub>x,y</sub> and perimeter p, we have x + y = p/2. By the AGM Inequality, xy ≤ (<sup>xy,y</sup>)<sup>2</sup> = (p/4)<sup>2</sup>. The bound is achieved with equality when x = y, which is the case of a square.
- 1.5. Transferion 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 Fahrenbeit 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 apposite signs occurs at 80/7 degrees Fahrenheit, since 80/7 is the solution to I = (9/5)(-I) + 32.
- c) The Fishrenhelt value is neice 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  $x \ge y$ , then  $(-1/x) \ge (-1/y)$ ." If y is negative and x is positive, then -1/x is negative and -1/y is positive, so  $(-1/y) \le (-1/y)$ .

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	2/10	2/9	Morning	.20	.22
Afternoon	9/14	6/9	Afternoon	.64	
Total	11/24	8/18	Total	.465	.44

- 1.8. Percentage changes. In either case, (20% decline and then 23% rise) or (20% rise and then 18% decline), the original amount is multiplied by .964 = .80 · 1.23 = 1.20 · .82 = .964, producing a loss.
- 1.10. If 25% more PhD degrees are produced than the economy can obsorb, then there is a 1 in 5 chance of underemployment. The economy can absorb

Adding the condition  $y \ge 0$  makes the statement true, If now x is negative, then  $(-1/x) \ge 0 \ge (-1/y)$ . If now x is also positive, then  $1/x \le 1$ 

 y, and multiplying by 1 yields the desired inequality.

Chapter I; Numbers, Sets, and Functions

In fact, the statement is true whenevery  $\geq 0$  or  $x \leq 0$ , which is a more general situation than  $y \geq 0$ .

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

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**Arturo Cuomo** 

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