Errors in Journey into Discrete Mathematics

This list is current as of September 30, 2019. Report additional errors to JourneyIntoDM@gmail.com
Authors: Owen Byer, Deirdre L. Smeltzer, Kenneth Wantz

1. p. 43. In Exercise 7, parts (c) and (d) should reference part (b) instead of part (a).

2. p. 53. In the last line of the paragraph after Table 3.5, $C(T, T)$ should equal T.

3. p. 69. Switch the order of 5a and 5b in Theorem 4.1, so De Morgan's First Law is listed first.

4. p. 110. In Exercise 4, the final statement should be $|R| = 27$, not $|R| = 18$.

5. p. 111. In Problem 16, the wrong font is used for the relation R in its second appearance.

6. p. 125. The solution to sequence (2) says that the next two terms are 1 and -1, but they are -1 and 1.

7. p. 139. In Example 70, the statement should be: "Given n points in the plane, no *three* of which are collinear, ... " The same error repeats twice more in the proof of the inductive step, where "no two of" should be replaced with "no three of".

8. p. 150. In Exercise 7, the second sentence should read, "Let s_3 be the sum of the squares of the digits of s_2."

9. p. 158. The last line of Example 77 should have $n^2 = 2m^2$.

10. p. 168. In Exercise 2, the comma in 5,005 should be removed for clarification.

11. p. 171. In Example 83, the word "computer" should just be "compute".

12. p. 178. In Exercise 8, the message to be encrypted has a mistake in the second letter of the second word. The message should be: WPMLSZTQUP BYPMTQUPO KYOT GW QPDWLTQGFW .

13. p. 196. In the solution to Example 99, $26^3 = 17,576$, not 1,756 as written. This 1,756 needs to be replaced twice in the solution. All the other numbers are correct.

14. p. 230. In Exercise 9, "Hamilton path" should be replaced with "Hamilton cycle."

15. p. 278. In Problem 15, $A \subseteq [99]$.

16. p. 282. In Problem 16, the expression should be $13^4/\binom{52}{4}$.

17. p. 317. Problem 10e of Section 12.3 should read, "Prove that if a and n are relatively prime, then $a^{\phi(n)+1} \equiv a \pmod{n}$."

18. p. 322. Problem 7. We do not see an easy way to solve the given problem using the techniques of the section. We intended to use 345 instead of 1380.

19. p. 355. The hint for Exercise 5 should have $0 \leq r < |b|$.

20. p. 367. The "hint" to Problem 15 at the bottom of the page is actually a complete solution to Problem 15 of Section 7.6.