

DISCRETE MATHEMATICS WITH APPLICATIONS, 4th Edition
 by Susanna S. Epp

Great effort was made to insure as error-free a product as possible. With approximately 3 million characters in the book, however, some mistakes are inevitable. I would be grateful to learn of any errors you find so that they can be listed on this page and corrected in subsequent printings. Please send them to me at susanna.s.epp@gmail.com.

With thanks, Susanna S. Epp

Note: The printing number is located on the page on the opposite side from the title page. It is the smallest number listed underneath the words "Printed and bound in the United States of America."

ERRATA FOR THE THIRD PRINTING

CHAPTER 3

Text

LOCATION	CORRECTION
103 – Example 3.1.10	In line 5, change " p " to " P ", and in line 6 change " ε " to " ϵ ".

CHAPTER 4

Text

LOCATION	CORRECTION
146 – line 5	Change "reason's" to "reasons".
187 – line 2 from bottom	Change to: "nonnegative and $- r $ is zero or negative, then $- r \leq r$. Thus it is true that".
188 – line 9 from bottom	Change "inequity" to "inequality".

Exercises

LOCATION	CORRECTION
A-26 – 4.6 #9a	In lines 7 and 9, change "sum" to "difference".

CHAPTER 5

Text

LOCATION	CORRECTION
231 – Example 5.1.7	Add: "Assume that $n > 0$."
299 – line 4 from bottom	Change "annual percentage rate" to "annual percentage yield" and "APR" to "APY".
300 – line 12	Change "APR" to "APY".
301 – line 7	Change " $n \geq 0$ " in the beginning of the solution to " $n \geq 1$ ".
312 – line 11 from bottom	Change " $m_k = 2m_{k+1} + 1$ " to " $m_k = 2m_{k-1} + 1$ ".
313 – line 12	Change $2 \cdot 2^{k-1}$ to $2 \cdot 2^{k+1}$.

Exercises

LOCATION	CORRECTION
304 – 5.6 #37c and 38c	Change "APR" to "APY".
A-43 – 5.6 #37c	Change "APR" to "APY".
A-46 – 5.7 #43b	In line 3, change " x_0 " to " a_0 ". In line 19, change "if k is even" to "if $k + 1$ is even" and "if k is odd" to "if $k + 1$ is odd".

CHAPTER 8

407 – line 12	Change “But by (3)” to “But by (3)’”.
443 – Example 8.1.3, line 2	Change “relation \mathbf{S} from $\mathcal{P}(X)$ to \mathbf{Z} ” to “relation \mathbf{S} from $\mathcal{P}(X)$ to $\mathcal{P}(X)$ ”.
446 – 2 nd line from bottom	Change “two sets, similarly” to “two sets; similarly”.
456 – line 10	Change “For all $m, n \in \mathbf{Z}$ ” to “For all $m, n, p \in \mathbf{Z}$ ”
476 – 8.3 #33	In line 5: Change “and (x_2, y_2) in A ,” to “and (x_2, y_2) in A , $(0, 0) R$ $(1, 1)$, and $(0, 1) R$ $(1, 0)$, and”. In line 6: Change “ \Leftrightarrow ” to “if”.
504 – middle diagram	Add an arrow going up from \emptyset to $\{b\}$.

Exercises

LOCATION	CORRECTION
475 – 8.3 #10	In line 2 change “ \mathbf{Z} ” to “ A ”.
A-71 – 8.4 #1a	Change “ZKUHUH” to “ZKHUH”.

CHAPTER 9

Text

LOCATION	CORRECTION
548 – line 7 from bottom	Interchange the numbers 26 and 18.
549 – lines 5 & 6	Change to: “16 students took precalculus and Java” and “10 students took precalculus and Java but not calculus.”
563 – Test Yourself #3	After “finite sets”, insert “with the same number of elements”.

Exercises

LOCATION	CORRECTION
A-77 – 9.2 #14b	The answer should be 1,757,600.
591 – 9.6 #16	In parts (a) and (b), change “five cans” to “fifteen cans”.
A-87 – 9.6 #16b	In line 8 from the bottom, delete “at most”. Then delete the references to selecting one additional can. Thus the answer is just 6.
A-88 – 9.6 #16b	The computations in lines 4 and 5 should be $715 + 495 - 15 = 1,195$, and the computation in line 9 should be $3,876 - 1,195 = 2,681$.
A-90 – 9.8 #16	In line 3, change “ $\binom{6}{2} = 4$ ” to “ $\binom{4}{2} = 6$ ”.

CHAPTER 10

Text

LOCATION	CORRECTION
680 – line 18	Change “the ones that are images under g ” to “the ones that are images under h ”.

CHAPTER 11

Text

LOCATION	CORRECTION
766 – line 3	Change “intialize” to “initialize”.