

Typos in *Discrete Mathematics: Elementary and Beyond*

- Section 1.2, page 6: In the sentence four lines below equation (1.1), the book says “(since we also have $x \in C$)” when it should instead say “(since we also have $x \in A$)”.
- Section 2.1, page 27, middle of the page: Replace “or the statement is not for $n = 1$ ” with “or the statement is not *true* for $n = 1$ ”.
- Section 2.1, page 27, middle of the page: Replace “ $n!$ is an even number if ≥ 1 ” with “ $n!$ is an even number if $n \geq 1$ ”.
- Section 3.1, page 44, Exercise 3.1.2: This exercise should have the extra hypothesis that “ $n \geq 1$ ”. Indeed, note the statement is false for $n = 0$.
- Page 263, solution to Exercise 4.3.1. The second to last line has a plus sign that should be a minus sign. This line should read

$$= \frac{1}{\sqrt{5}} \left(\left(\frac{1 + \sqrt{5}}{2} \right)^{n-2} \left(\frac{1 + \sqrt{5}}{2} + 1 \right) - \left(\frac{1 - \sqrt{5}}{2} \right)^{n-2} \left(\frac{1 - \sqrt{5}}{2} - 1 \right) \right)$$

- Page 267, solution to Exercise 6.6.2(a). Instead of “hence $d \leq \gcd(a, b)$ ”, the second line should read “hence $d \leq \gcd(a, b - a)$ ”.
- Section 6.8, page 107, Exercise 6.7.5. Instead of “ $u \equiv y \pmod{p - 1}$ ”, the second line of this exercise should read “ $u \equiv v \pmod{p - 1}$ ”.
- Section 12.2.2, statement of Theorem 12.2.2. We need the additional hypothesis that G has at least $n \geq 3$ vertices.
- Section 13.2, page 201. In the sentence “We have to show that there is no edge between the black vertices: no edge goes between u and the new black vertices, since ...”, it should read “ a ” instead of “ u ”.