

# An Introduction to Proof via Inquiry-Based Learning

## Errata

Dana C. Ernst

August 19, 2022

All errors listed below have been corrected in the version of the book that has been compiled from the current source. Page numbers below reference the print version of the textbook published by AMS/MAA Press.

If you think you have found any errors not already listed here, please submit an issue on [GitHub](#) or send me an email at [dana.ernst@nau.edu](mailto:dana.ernst@nau.edu).

- Page 54, Theorem 4.2: It would be nice if Item (ii) began “for all  $k \geq 1$ ”. This is an instance of an implicit universal quantifier for a conditional statement. In this case, the implicit universe of discourse is the set of natural numbers. However, including “for all  $k \geq 1$ ,” leads to a nice parallelism with Theorem 4.9. [Ben Ford]
- Page 56, Theorem 4.9: Item (ii) should start with “for all  $k \geq a$ ,”. [Ben Ford]
- Page 57, Skeleton Proof 4.10: In Item (ii), it should say “For all  $k \geq a$ , if  $P(k)$  is true, then  $P(k + 1)$  is true.” as opposed to “For all  $k \in \mathbb{Z} \dots$ ” [Ben Ford]
- Page 60, Problem 4.33: In Item (i), the final string is missing a leading one. It should be “011101  $\rightarrow$  111101”. [Ben Ford]
- Page 63, line 1: Missing the word “the” between “into” and “structure”. [Dana C. Ernst]
- Page 158, line 1: Missing the word “look” between “you” and “at”. [Roy St. Laurent]