

Notes on logic

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Recommend for further reading and the sources I am using

- HOW TO PROVE IT - A STRUCTURED APPROACH, by *Daniel J. Velleman*.
 - This is the primary book I am following.
- Appendix: the basis of mathematical logic in ANALYSIS I: THIRD EDITION, by *Terence Tao*.
 - This is a really well-written description of logic. Recommend, if you can get the book.

1 Statements

Definition 1. (argument)

An *mathematical argument* consists of a sequence of premises and a conclusion. Let p_1, p_2, p_3, \dots be the premises and c be the conclusion.