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HKGAB4 - Lecture 4

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Module 4, Lecture 4
Chapters 1-2, Hyperproof
Practice with Formal Proofs

1 Goal

The goal of this lecture is to provide practice in

- Evaluating sentences using Kleene's 3-valued truth tables.
- Fitch's Natural Deduction System.

2 Preparation

Try and do some of the following exercises on paper to acquaint yourselves with the different inference rules in System $\mathcal{F}$.

Chap. 2: Exercises 21-25.

Chap. 3: Exercises 39-47, 49-50, 55.

Chap. 4: Exercises 23-26, 29.

In addition,

- Reread Chapter 1, Hyperproof.
- Read Chapter 8, Hyperproof.

3 Lecture Exercises

There are no obligatory exercises associated with this lecture. You may want to prepare questions concerning formal proofs and Kleene evaluation though.