

Non-Classical Logics Exercise List

Every other week, we will meet to discuss the chapters as scheduled in Priest's (2008) *An Introduction to Non-Classical Logics, 2nd ed.* For those weeks, you should attempt some of the practice problems at the end of the chapters. These exercises will mostly concern semantic tableaux problems, to help us get familiar with the behavior of each system, and highlight the difference between the various non-classical logics we are studying. At the start of our Friday meetings, we'll take turns sharing our answers to these practice problems, and the transition to a discussion of the philosophical questions that Priest explores in the chapter.

Week 1 (6 Feb): Chapter 1 Propositional logic

- Section 1.14 (p18): 1a, 1b, 1c, 1d, 1e, 1f, 1g, 1h, 1i, 1j, 5

Week 3 (20 Feb): Chapter 2 Basic Modal Logic & Chapter 3 Normal Modal Logic

- Section 2.12 (p34): 2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n
- Section 3.10 (p61): 3a, 5a

Week 5 (6 Mar): Chapter 4 Normal Modal Logics, Strict Conditionals & Chapter 5 Conditional Logics

- Section 4.13 (p80): 2a, 2b, 2c
- Section 5.12 (p101): 2a, 2b, 2c, 3a, 3b, 3c

Week 7 (20 Mar): Chapter 6 Intuitionistic Logics & Chapter 7 Many-Valued Logics

- Section 6.10 (p117): 3a, 3b, 3c, 3d, 3e, 4a, 4b, 4c, 4d, 4e

Week 10 (17 Apr): Chapter 8 First Degree Entailment & Chapter 9: Logic with Gaps, Gluts, and Worlds

- Section 8.10 (p161): 1a, 1b, 1c, 1d, 1g, 1h, 1i
- Section 9.11 (p185): 2a, 2b, 2c, 2d, 2e

Week 12 (1 May) Chapter 10 Relevant Logics

- Section 10.11 (p218): 1 [10.3.6 (p192): A1, A2, A3, A4], 2a, 2c, 4a, 4b

Week 14 (15 May) Chapter 11 Fuzzy Logics

- Section 11.10 (p239): 1, 3a, 3b