

CS112: Modal, Temporal, and Spatial Logic

Problem Set 2: First Order Logic
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Posted: Thursday, September 8, 2016

Due Date: Thursday, September 15, 2016

The following problems are taken from Huth and Ryan's exercises for Chapter 2, starting on page 157 of the book. Please read the directions for each question carefully!

As before, partial credit will be given where possible and your proofs should be written in the style we used on the last problem set. Good luck!

1. Translations
Exercise 2.1, problem 2(a, b, c) – **3 questions**
2. Natural Deduction
Exercise 2.3, problem 9(a, b) and problem 13(f, h) – **4 questions**
3. Predicate Logic Semantics
Exercise 2.4, problem 11(a, d) and problem 12(b) – **3 questions**