

CS112: Modal, Temporal, and Spatial Logic

Problem Set 2: First Order Logic
Instructor: James Pustejovsky

Posted: Tuesday, September 17, 2013

Due Date: Tuesday, September 24, 2013 **IN CLASS**

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**