

L1. Mathematical Logic

Homework Assignment #4.

Exercise 1: Ex. 2, p. 122-3.

Exercise 2: Ex. 3, p. 123 (prime formulas are defined on p. 106).

Exercise 3: Ex. 4, p. 123.

Exercise 4: Ex. 6, p. 123.

Exercise 5: Ex. 9, p. 123.

Exercise 6: Ex. 10, p. 123.

Exercise 7: Ex. 15, parts (b) and (e), p. 124.

Exercise 8: Ex. 1, p. 139.

Note: When formal proofs are required, you should not use the Completeness Theorem.

Deadline: Solutions should be delivered to the instructor (on paper or by email) by Wednesday, January 14.