

MATHEMATICS 361 — FALL 2019

SET THEORY

H. J. Sussmann

HOMEWORK ASSIGNMENT NO. 5, DUE ON THURSDAY, OCTOBER 10

These problems are about “pure set theory”; that is, we assume there are no atoms, so everything is a set. Hence “ $\forall x$ ” means “for every set x ”, and “ $\exists x$ ” means “there exists a set x such that”.

PRACTICE PROBLEMS FOR YOU TO DO: Book, pages 64-65, problems 46, 47, 48, and 52 to 59; and page 73, Exercises 2 to 6. (NOTE: Exercises 2 and 3(a) already appeared in Homework no. 1.)

PROBLEMS FOR YOU TO HAND IN:

1. Book, pages 64-65, Problems 46, 52, 56, 58 and 59.
2. Book, page 73, Exercises 3(b), 4, 5, and 6.