

COT 5420 — Homework 5

Due Monday, December 6

Read Chapters 3, 4, and 5 of Sipser and solve the following problems:

- 3.16 (See page 14 for the definition of lexicographic order.)
- 3.19
- 4.5 (Imitate the proof given in class that regular language emptiness is decidable.)
- 4.11
- 5.1 (Use Theorem 5.10.)
- 5.2 (See page 167 for the definition of “co-Turing-recognizable”.)
- 5.19
- 5.22