

# Functional Programming

## Exercises Week 5

(for November 11, 2016)

1. Read Chapters 5.1–5.2 of the lecture notes.
2. Exercise 5.1
3. Exercise 5.2
4. Exercise 5.6
5. Consider the term  $t = (\lambda xy.y) ((\lambda x.x x) (\lambda x.x x))$ .
  - a) Compute a normal form of  $t$ .
  - b) Exhibit an infinite reduction sequence starting in  $t$ .
6. Exercise 5.8