

AMATH 383 Homework Assignment #4

(Due in class: October 31)

1. Exercise 6 of Chapter 6 of the textbook. You might also find the amazing beautiful patterns generated by a mathematical model in this paper:

<http://www.pnas.org/content/106/16/6837.full.pdf>

The paper is not needed for solving the problem, though.

2. Exercise 10 of Chapter 6 of the textbook.
3. Exercise 1 of Chapter 9 of the textbook.
4. Exercise 4 of Chapter 9 of the textbook. Note the term “stalemate” in (a) is not very precise: If you look at the Figure 9.6 on Page 182 in the textbook, the square law is the condition for “perish together”.