

LB 118, Sections 003 & 004, Spring 2016
Homework 5 (due 02/15)

Instructions: Please review the section of the course syllabus on homework before writing up your solutions to the problems below. Do not write on or turn in this document. Instead, write your solutions on looseleaf or blank paper. Homework is due at the start of class.

Please read through sections 3.1 of the textbook and carefully work through each of the Explore exercises before attempting the problems below.

1. Solve Exercise 3.1.2. You may use a calculator for this exercise, but you must explain the method you used to obtain estimates for the growth rate, i.e for the rate of change of $B(T)$ with respect to T , at each of the given values of T .
2. Solve Exercise 3.1.3.
3. Solve Exercise 3.1.4.
4. Solve Exercise 3.1.10.

Self-study Problems. The following exercises are for self-study. Please do not turn in solutions to these exercises. On the other hand, please do ask how to solve these problems on our Piazza discussion forum if you find some which you are not certain how to solve or one for which you are not certain you've found the correct answer.

Chapter 2 Exercises: 2.1.1, 2.2.1–2.2.5, 2.3.1–2.2.4, 2.3.6, 2.3.7, 2.6.1, 2.6.3–2.6.5, 2.6.8, 2.6.13, 2.7.5, 2.7.6, 2.7.9, 2.7.13, 2.8.1, 2.8.2, 2.8.4, 2.8.7, 2.8.8, and 2.8.11.

Chapter 3 Exercises: 3.1.1, 3.1.5–3.1.7, 3.1.11–3.1.14. Additional problems will be added to this list as we work through Chapter 3.