

Mathematics 1550H – Introduction to probability

TRENT UNIVERSITY, Summer 2013

Homework

The following exercises from the text are for practice – they are not to be handed in and do not count for credit – and you should do them as we go through the material. (Get ahead if you like, just don't fall behind if you can avoid it.) Feel free to do as many more exercises besides those suggested below as you can stand, and by all means ask about any examples, problems, or exercises from the text in tutorial or office hours if you encounter any difficulties with them. Note that the answers to most odd-numbered exercises are given in the back of the text.

You will get updated versions of this list, adding problems for additional chapters, as we go through the material.

§1.2 Exercises 1, 3, 5, 9, 11, 13, 15

§1.4 Exercises 1, 3, 5, 7, 11, 15, 17, 23, 29

§1.7 Exercises 1, 3, 5, 7, 9

Chapter 1 Review Problems 3, 5, 7, 9, 11, 13

NOTE: Only some sections have exercises. Those that do, serve those before them that do not.

§2.2 Exercises 1, 3, 5, 7, 9, 13, 17, 19, 23, 25

§2.3 Exercises 1, 3, 5, 7, 13, 17, 19, 21, 25

§2.4 Exercises 1, 3, 7, 9, 13, 15, 17, 20, 23, 25, 27, 33, 35, 43, 45

Chapter 2 Review Problems 3, 5, 7, 9, 13, 15, 17, 21

§3.1 Exercises 1, 3, 5, 7, 11, 13, 17, 19

§3.2 Exercises 1, 3, 5, 7, 9

§3.3 Exercises 1, 5, 9, 11, 15, 19, 23

§3.4 Exercises 1, 3, 7, 9, 13

§3.5 Exercises 1, 5, 7, 9, 11, 12, 15, 17, 23, 27, 31, 35

Chapter 3 Review Problems 1, 5, 9, 11, 15

NOTE: We are skipping §3.6 due to time constraints. Students with an interest in genetics should give it a read nevertheless.

§4.2 Exercises 1, 3, 5, 7, 9, 11, 13, 19

§4.3 Exercises 1, 3, 5, 6, 7, 9, 11, 15

§4.4 Exercises 1, 3, 5, 9, 11, 13, 15, 16

§4.5 Exercises 1, 3, 5, 7, 13

§4.6 Exercise 1

Chapter 4 Review Problems 1, 3, 5, 7, 11

§5.1 Exercises 1, 5, 7, 9, 11, 17, 19, 25

§5.2 Exercises 3, 5, 7, 11, 13

§5.3 Exercises 1, 3, 7, 9, 11, 13, 17

Chapter 5 Review Problems 1, 3, 5, 7, 11, 17, 19, 23s

§6.1 Exercises 1, 5, 7, 9, 11

§6.2 Exercises 1, 3, 7

§6.3 Exercises 1, 3, 5, 9, 13

Chapter 6 Review Problems 1, 3, 5, 7, 11

§7.1 Exercises 1, 3, 5, 9

§7.2 Exercises 1, 3, 5, 7 [bell curved marks!], 11, 13, 15, 19, 21

§7.3 Exercises 1, 3, 7, 9

§7.4 Exercises 1, 3, 5

§7.5 Exercises 1, 3, 7

Chapter 7 Review Problems 3, 5, 7, 9, 15

NOTE: We are skipping §7.6, the whole of Chapters 8–10, and §11.1 & 11.2.

§11.3 1, 3, 5ac, 9

§11.4 1, 3

§11.5 1, 3, 5, 7

Chapter 11 Review Problems 1, 11, 13