## 18.338 Eigenvalues of Random Matrices

## Problem Set 1

Due Date: Wed September. 29, 2021

## Reading and Notes

Read chapter 5, 9, 10 of the class notes, and comment on nb.mit.edu (The lecture notes and the link to nb can be found in Piazza: http://piazza.com/mit/fall2021/18338.). Please give your feedback especially high level style and where things did not make sense, in addition to spelling or technical errors.

## Homework

Do at least four out of the following problems (Computational/Mathematical problems are denoted as C/M). Exercise with numbers and pages are from the class notes.

- 1. (C) Exercise 5.3 (p93)
- 2. (C) Exercise 5.6 (p94)
- 3. (C) Exercise 5.7 (p94)
- 4. (M) Exercise 9.1 (p166)
- 5. (M) Exercise 9.2 (p167)
- 6. (M) Exercise 9.3 (p167)
- 7. (M) Exercise 10.1 (p201)
- 8. (M) Exercise 10.2 (p202)
- 9. (M) Exercise 10.4 (p202)
- 10. (M) Exercise 10.5 (p202)