

# Homework Assignment 1 – Math 270b, Winter 2018

Name / UID

- This homework assignment is open to all textbooks (listed above or not), class notes. All solution manuals and the solutions from the previous quarters are prohibited.
- You are encouraged to ask questions and discuss the questions and solutions on <http://piazza.com/ucla/fall2018/math270b/home>. However, **copying others' solutions or codes** will be a **serious violation**.
- Please type your answers in Latex and **submit a single PDF file**. Note that you can insert an external PDF file such as scans of handwritten answers and code snippets to your latex file by using

```
\usepackage{pdfpages} % add this line before \begin{document}
```

```
\includepdf[pages={1,2,3}]{myfile.pdf}
```

- You are encouraged, albeit not required, to use notation similar to the course slides.

**Problem 1. (10 points)**

[Type the problem here, or give its reference.]

**Answer:** [Type your answer here. Make sure you clearly define all mathematical objects in the answer.]

**Problem 2. (10 points)**

[Start a problem on a new page. Type the problem here, or give its reference.]

**Answer:** [Type your answer here. Make sure you clearly define all mathematical objects in the answer.]

**Problem 3. (10 points)**

[Start a problem on a new page. Type the problem here, or give its reference.]

**Answer:** [Type your answer here. Make sure you clearly define all mathematical objects in the answer.]

**Problem 4. (10 points)**

[Start a problem on a new page. Type the problem here, or give its reference.]

**Answer:** [Type your answer here. Make sure you clearly define all mathematical objects in the answer.]

**Problem 5. (10 points)**

[Start a problem on a new page. Type the problem here, or give its reference.]

**Answer:** [Type your answer here. Make sure you clearly define all mathematical objects in the answer.]

**Problem 6. (10 points)**

[Start a problem on a new page. Type the problem here, or give its reference.]

**Answer:** [Type your answer here. Make sure you clearly define all mathematical objects in the answer.]