

## Assignment #12

**Due Friday, 6 December 2019, at the start of class**

The Exercises are from Chapters 18 and 19. The last topic will be  $L_p$ -spaces.

One exercise below is identified with your initials. Please  $\LaTeX$  this problem and send both the `.tex` and `.pdf` to me at `elbueler@alaska.edu` by the same due date as above. See the course website for a  $\LaTeX$  template.

DO THE FOLLOWING EXERCISES from the textbook:<sup>1</sup>

### CHAPTER 18

- Exercise #4 on page 318.
- Exercise #6 on pages 318–319.      ← **WV**
- Exercise #9 on page 320.      ← **AM**
- Exercise #10 on page 320.      ← **DD**
- Exercise #12 on page 320.
- Exercise #23 on page 326.
- Exercise #38 on page 332.
- Exercise #45 on page 333.

### CHAPTER 19

- Exercise #1 on page 339.
- Exercise #27 on page 345.
- Exercise #32 on page 345.

---

<sup>1</sup>Carothers, *Real Analysis*, Cambridge University Press 2000.