

## Assignment #11

**Due Wednesday, 20 November 2019, at the start of class**

The Exercises are from Chapters 16, 17, and 18. We finally get to touch a Lebesgue integral.

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 16

- Exercise #56 on page 284.
- Exercise #60 on page 284.
- Exercise #75 on page 292.

### CHAPTER 17

- Exercise #1 on page 297.      ← DD
- Exercise #4 on page 297.
- Exercise #6 on page 297.      ← WV
- Exercise #27 on page 303.      ← AM
- Exercise #41 on page 309.

### CHAPTER 18

- Exercise #3 on page 316.

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