

# Homework 8

Math 330

Type (in  $\text{\LaTeX}$ ) your solutions to the following problems. Submit them either on Moodle or in the homework mailbox (RMS level 3, near the fireplace) by 4:00pm on **Thursday, November 9**.

Exercises from the textbook:

1. Problem 5.5.1(ac)

2. Problem 5.5.8

*Hint:* For part (a), try differentiating  $\pm uv''' \pm u'v'' \pm u''v' \pm u'''v$ .

3. Problem 5.5.9

4. Problem 5.6.1

5. Problem 5.6.2

6. Problem 6.2.1