

MATH 461/661 Homework 9

Due Thursday, April 16, 2015 at the beginning of lecture.

In order to receive full credit, you must (1) present the solutions in the order of the assigned problems, (2) write or type legibly, and (3) justify your answers appropriately. For problems with answers given in the back of the text, please remember to **show your work!**

Note: To save time, you may evaluate integrals or simplify sums using a **symbolic calculator**, software such as **Maxima**, **Maple** or **Mathematica** (available in some UNR computer labs and via citrix.unr.edu), or free online resources like **Wolfram Alpha** (www.wolframalpha.com) and **Sage Notebook** (sagenb.com). Please note where you use such resources in your answers.

1. **3.9.5**
2. **3.9.12**
3. **3.9.14**
4. **3.9.19**
5. **3.9.21**
6. **3.11.4**
7. **3.11.5**
8. **3.11.9**
9. **3.11.13**
10. **3.11.17**
11. **3.12.3** (Hint: See Examples in 3.12)
12. **3.12.4** (Hint: Carefully compare to example 3.12.1)