

**MATH 285: Methods of Applied Math**  
**Department of Mathematics, U of R**  
**Homework 5**

**Spring 2024**  
**Handed out:** Monday, 04/03/24  
**Due:** Monday, 04/24/24

Do ALL Problems for full credit. Each main problem is worth the same number of points; almost likewise for each sub problem. Carefully explain your steps. If you invoke a “well known” theorem, make clear precisely which theorem you are using and justify its use.

1. Do Prob. 9, p160 from Strauss
2. Do Prob. 11, p161 from Strauss
3. Do Prob. 13, p161 from Strauss
4. Do Prob. 7, p164 from Strauss
5. Do Prob 2, p172 from Strauss
6. Do Prob. 12, p177 from Strauss
7. Do Prob. 1, p.183 from Strauss
8. Do Prob. 5, p184 from Strauss
9. Do Prob. 7, p184 from Strauss
10. Do Prob. 2, p187 from Strauss