

Math 331-004 Homework Assignment 5. Due Thursday 3/4/2004 at the start of class.

Problems from Haberman Chapter 4

Section 4:

- Write up to hand in: 4.4.3, 4.4.7, 4.4.9, 4.4.10. Make sure that you understand 4.4.9 before attempting 4.4.10.
- To think about: 4.4.8 (note how similar it is to 4.4.7). Think about how changing the term  $-\beta u_t$  to  $\alpha u$  in 4.4.3 would change the problem, in particular: which sign for  $\alpha$  corresponds to damping?