

Problem Set 7

Due Friday, April 30

- T7.1, T7.14, 7.3, 7.5, 7.13
- 8.1, 8.2, 8.5
- T9.2, Computer Experiment 9.1

Notes:

- Don't forget to check for hints in the back of the text.
- You can check your answers to 7.5 and 7.13 with the on-line phase plane program <http://math.rice.edu/~dfield/dfpp.html>, but the work that you hand in must demonstrate that you can do the problems without a computer.
- In 7.5(c), Note that x and y are decoupled from the z variable. Also, the xy system has the form discussed in Example 7.8, so the eigenvalues can be found by inspection. See also Example 7.9.