

The homeworks will be graded statistically.

All the problems are from the textbook: *Nonlinear Dynamics and Chaos*, by Steven H. Strogatz, Perseus Books Group, 2001.

NOTE: For some of the problems in this homework, verify your phase portraits using pplane. Please learn to use the MATLAB function pplane. If you don't have a copy of the MATLAB, you can use the on line applet

<http://www.math.psu.edu/melvin/phase/newphase.html>

1. 6.1.3
2. 6.3.2
3. 7.1.1
4. 7.1.3
5. 7.1.8
6. 7.3.1