

**Dynamical Systems(550.391)**  
**Homework 3 (Due: Thursday, October 6, 2005)**

**General Directions:** You must show all work and document any assumptions to receive full credit on a problem. Feel free to use a computer to create any required graphics or to determine the location of specific fixed points.

1. Strogatz: Problem 3.4.16; (See Section 2.7 for a discussion of Potentials)
2. Strogatz: Problem 3.5.8
3. Strogatz: Problem 3.6.2(a), (b)
4. Strogatz: Problem 3.6.3
5. Strogatz: Problem 3.6.4
6. Strogatz: Problem 3.7.2(a)
7. Strogatz: Problem 3.7.4(b)–(f)