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Read Nonlinear Dynamics and Chaos (Strogatz) Chapter 2 Pages 15-24. By now you should have a copy of the book. WEEK 1 Homework Problems - Due Monday May 13th Before Class - We have covered through Population Dynamics *** In Class Materials *** Group Work - Day 2

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2.2Fixed Points and Stability Analyze the following equations graphically. In each case, sketch the vector field on the real line, find all the fixed points, classify their stability, and sketch the graph of $x(t)$. 2.2.1 $\dot{x} = 4x^2 - 16$ Theanalyticalsolutionis:

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Office Hours. Professor: Mark Schumaker MW 2:10-3:30pm and by appointment. Neill 209. email: schumaker@wsu.edu. Homework Assignments for Math 415

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APMA 1360. Spring 2014 Instructor: John Gemmer Office Hours: Tuesday 9:00-11:00, Thursday 9:00-11:00 Lecture: MWF: 1:00-1:50, Barus and Holley 165 Textbooks ...

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Math 383/683. Spring 2017 Instructor: John Gemmer Office: Manchester #360 Phone: 336-758-5386 E-mail: gemmerj@wfu.edu Office Hours: Tuesday 3-5, Wednesday 1-2, Thursday 2-4 Lecture: MWF: 9:00-9:50, Manchester 124 Textbooks: Nonlinear Dynamics and Chaos 2nd Edition, S.H. Strogatz, 2014. Course Handouts:

Math 383/683 - Wake Forest University
Lecture Notes: Transparencies from Spring 2003: These notes closely follow the text by Strogatz, and are numbered according to the chapters in that book.

SFU Math 467, Dynamical Systems: Documents and Homework
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