
Differential Equations

Math 341 Fall 2008
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Fowler 307 MWF 2:30pm - 3:25pm
<http://faculty.oxy.edu/ron/math/341/08/>

Week 4

Monday September 15 *Class 7:*

Bifurcations. We will learn about a modern analytical technique which allows one to analyze differential equations which contain parameters.

Reading:

Blanchard, Section 1.7

Homework #7:

Blanchard, Section 1.7: 3, 6, 8, 12, 15.

Quiz #2 Due

Wednesday September 17 : *Class 8:*

Linear Differential Equations. We will learn about the Linearity Principle and how it helps us to solve an entire class of ODEs.

Reading:

Blanchard, Section 1.8

Homework #8:

Blanchard, Section 1.8: 4, 5, 8, 9, 17, 18, 20.

Friday September 19 *Class 9:*

Integrating Factors. We will learn a very cool analytical technique for obtaining a formula for solutions of linear ODEs.

Reading:

Blanchard, Section 1.9

Homework #9:

Blanchard, Section 1.9: 4, 5, 9, 12, 19