
Differential Equations

Math 341 Fall 2009
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Fowler 110 MWF 2:30pm - 3:25pm
<http://faculty.oxy.edu/ron/math/341/09/>

Week 8

Monday October 19 : *Fall Break*

Wednesday October 21 : *Worksheet 16*

Straight Line Solutions. Eigenvalues and eigenvectors return and are important in the case where Linear Systems of ODEs have solutions that look like straight lines.

Reading:

Blanchard, Section 3.2

Homework #16:

Blanchard, Section 3.2: 6, 11, 15, 16, 18.

Friday October 23 : *Worksheet 17*

Linear Systems with Real Eigenvalues. We'll be introduced to a new kind of equilibrium point which is neither a sink or source. It's called a saddle!

Reading:

Blanchard, Section 3.3

Homework #17:

Blanchard, Section 3.3: 3, 4, 7, 8.

Quiz:

Take-Home Quiz.