
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 12

Monday November 10 : *Worksheet 28*

Laplace Transforms. We shall be introduced to a new method for solving differential equations that involves an integral transform.

Reading:

Blanchard, Section 6.1

Homework #27:

Blanchard, Section 6.1: 2, 3, 4, 6, 7, 8, 12, 13, 16, 17.

Wednesday November 12 : *Worksheet 29*

Laplace Transforms and the Heaviside Function. We shall continue our use of Laplace Transforms by considering discontinuous functions.

Reading:

Blanchard, 6.2

Homework #28:

Blanchard, Section 6.2: 1, 2, 3, 5, 8, 16.

Friday November 14 : *Worksheet 30*

Laplace Transform and Second-Order Equations. We shall learn how to apply Laplace Transforms to solve second-order ordinary differential equations of the form $y'' + py' + qy = f(t)$.

Reading:

Blanchard, Section 6.3

Homework #29:

Blanchard, Section 6.3: 5, 6, 8, 9, 10, 15, 18, 27, 28.

Quiz:

Take-Home Quiz #7.