
Differential Equations

Math 341 Spring 2005
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MWF 8:30 - 9:25am Fowler North 4
<http://faculty.oxy.edu/ron/math/341>

Week 1

Wednesday January 19 *Class 1:*

Definitions and Terminology. Introduction to the words, terms and notation we will be using to describe differential equations.

Reading:

Zill, (Section 1.1 and 1.2)

Homework #1: (due in *Class 2*)

Zill, Exercises 1.1: # 1, 2, 3, 4, 8, 9, 11, 12, 15, 17, 21, 22, 27, 28, 29, 30, 31,
EXTRA CREDIT: 41, 42, 43, 44, 51 (Hand in # 2, 4, 8, 12, 17, 22, 28, 30)

Friday January 21 *Class 2:*

Initial Value Problems. Introduction to initial value problems (differential equation plus initial condition). The Existence and Uniqueness Theorem.

Reading:

Zill, (Section 1.2 and 1.3)

Homework # 2: (due in *Class 5*)

Zill, Section 1.2 # 1, 2, 3, 4, 5, 6, 15, 17, 20, *EXTRA CREDIT: 31, 32 (Hand in # 2, 4, 6, 20)*

Quiz #1