MWF 8:30 - 9:25am Fowler North 2 http://faculty.oxy.edu/ron/math/341

Week 5

Monday February 14 Class 12:

Systems of Differential Equations. Systems of first-order differential equations often exhibit much more complex behavior than can be realized from first-order differential equation with one dependent and independent variable.

Reading:

Zill, (Section 3.3)

Homework Set # 5: (due Friday February 18)

Zill, Section 3.3: 1*, 15* EXTRA CREDIT Page 121, #8; Page 122 #18

Quiz #4 DUE

BONUS Quiz #2 DUE

Wednesday February 16 Class 13:

Linear Differential Equations of Any Order. We shall begin looking at higher order differential equations, beginning with n-th order linear DEs.

Reading:

Zill, (Section 4.1, 4.2)

Homework Set #5: (due Friday February 18)

Section 4.1: 5*, 7*, 8*, 12* EXTRA CREDIT 36, 37

Friday February 18 Class 14:

Reduction of Order. We shall continue looking at higher order differential equations by learning the technique of *reduction of order*

Reading:

Zill, (Section 4.3)

Homework Set # 6: (due Friday February 25)

Zill, Section 4.2: 2*, 11*, 19*

Quiz #5

BONUS Quiz #3 online