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

Week 10

Monday March 28: Class 23:

Matrix Exponential. We will conclude our look at linear systems of DEs by analyzing the matrix exponential function e^{At} .

Reading:

Zill, (Section 8.4)

Homework Set # 9: (due Friday April 1)

Zill, Section 8.4: 1*, 2*, 5*, 23* EXTRA CREDIT 26

Zill, Chapter 8 In Review: 3^* , 4^* , 11^* , 15^*

Quiz #8 DUE

Wednesday March 30 Class 24:

Laplace Transforms. We will introduce the fascinating topic of integral transforms as a technique for solving differential equations, beginning with the Laplace Transform.

Reading:

Zill, (Section 7.1)

Homework Set #10: (due Friday April 8)

Zill, Section 7.1: 4*, 9*, 11*, 20* EXTRA CREDIT 41

EXAM 1 Returned

Friday April 1 Class 25:

Inverse Laplace Transform. In order to actually obtain any solutions of a DE using Laplace Transforms we need to be able to use the Inverse Laplace Transform.

Reading:

Zill, (Section 7.2)

Homework Set # 10: (due Friday April 15)

Zill, Section 7.2: 2*, 7*, 11*, 25*, 41* EXTRA CREDIT 42

Quiz #9