Differential Equations

Math 341 Fall 2008 © 2008 Ron Buckmire MWF 2:30-3:25pm Fowler 307 http://faculty.oxy.edu/ron/math/341/08/

Worksheet 26: Wednesday November 5

TITLE Review for Exam #2

CURRENT READING Blanchard, 3.1-3.7 and 5.1-5.3

Homework Assignments due Monday November 10

Section 5.4: 2, 13, 14, 16, 17, 19.

Chapter 5 Review: 3, 4, 5, 6, 7, 8, 11, 12, 25, 27, 28.

SUMMARY

We shall review the topics for Exam #2.

Hamiltonian Systems

Qualitative Analysis of Systems

The Linearization Technique

Trace-Determinant Plane

Second-Order Linear ODEs

Linear Systems of ODEs with Repeated Eigenvalues or Eigenvalues Equal to Zero

Linear Systems of ODEs with Complex Eigenvalues

Linear Systems of ODEs with Real Eigenvalues

Straight Line Solutions

Linear Systems of ODEs