Worksheet 14: **Monday October 12**

TITLE Review for Exam #1
CURRENT READING Blanchard, 2.4

Homework Assignments due Friday October 16
Section 2.2: 7, 8, 10, 24, 25.
Section 2.3: 3, 4, 7, 11.
Section 2.4: 2, 4.
Chapter 2 Review: 2, 10, 11, 13, 14, 19, 20, 28, 30.

SUMMARY
We will review the topics of the first two chapters of the book.

Here are the titles of the worksheets we have had in the first section of the course.

(13) Euler's Method for Systems of 1st Order ODEs

(12) Solving Special Systems of 1st Order ODEs

(11) The Geometry of Systems of 1st Order ODEs

(10) Introduction to Systems of 1st Order ODEs

(9) Integrating Factors for Solving Linear 1st Order ODEs

(8) Solving Homogeneous and Nonhomogeneous Linear 1st Order ODEs

(7) Bifurcations

(6) Phase Lines and Classification of Equilibria

(5) Existence and Uniqueness Theorem

(4) Euler's Method

(3) Slope Fields

(2) Separation of Variables Technique for Solving ODEs

(1) Introduction to Differential Equations

Next to each of them topics above place a letter.

> A - I completely understand this topic and am confident about answering questions on it

> B - I understand this topic mostly but am not confident about answering questions on it

> C - I barely understand this topic and could only answer a basic question about it

> D - I don't know anything about this topic at all.