

## Homework to Exam II

The first section of the course looked at solving  $y' = f(x, y)$ . We will now concentrate our efforts at solving  $n^{\text{th}}$  order linear differential equations. We may come back to Chapter 3 when we consider systems of differential equations at the end of the course.

1. Week of Feb 14-17

- Section 4.1: Homework handout (see next page)
- Section 4.1: 1, 5, 9, 15, 19, 20, 23, 31, 35, 38, 39
- Section 4.2: 1-11 odd 18, 19

2. Week of Feb 21-24

- President's Day: No Classes
- Section 4.3: 1-9 odd, 23, 25, 35, 43-48
- Section 4.3/4.4: See above, and 1-5 odd in 4.4

3. Week of Feb 28-Mar 3

- Section 4.4: 11, 16, 17, 21, 23, 32, 33, 34, 41, 45
- Section 4.6: 1, 3, 9, 11, 15, 17, 21, 23
- Section 4.7: 1, 3, 5, 15, 19, 23, 31, 33, 35, 41

4. Week of Mar 7-Mar 10

- Section 4.8: 1, 3, 5, 9, 11, 19
- Review for the exam.
- **Exam 2:** Please make travel plans accordingly!

Have a great (and safe!) Spring Break!