1050 Week at a Glance:
Week 7

Note: We skip to Chapter 7 this week. Chapters 4-6 are covered in Math 1060, Trigonometry.

Objectives

7.1   Systems of equations
- Use the method of substitution to solve systems of linear and nonlinear equations in two variables.
- Use a graphical approach to solve a system of equations in two variables and understand the limitations of such an approach.
- Model and solve real-life problems by setting up a system of equations in two variables.

7.2   Two-variable linear systems
- Use the method of elimination to solve systems of linear equations in two variables.
- Interpret graphically and algebraically the number of solutions to a system of linear equations.
- Model and solve real-life problems.

7.3   Multivariable linear systems
- Use back substitution to solve linear systems in row-echelon form.
- Use Gaussian elimination to solve systems of linear equations,
- Solve non-square systems of linear equations.
- Model and solve real-life problems by setting up systems of linear equations in three or more variables.

7.4   Partial Fractions
- Recognize partial fraction decomposition of rational expressions
- Find partial fraction decomposition of rational expressions

To Do:

For Lessons 7.1–7.4

- ☐ Book reading
- ☐ Print blank slides
- ☐ Watch lecture videos
  - ☐ Practice Problems
- ☐ WebAssign Homework

(Note: There are no "practice problems" for after the 7.4 video.)

Due by Sun 11 pm
- ☐ **Canvas Quiz Week 7**

Due by Mon of next week, 11 pm
- ☐ **WebAssign HW 7.1**
- ☐ **WebAssign HW 7.2**
- ☐ **WebAssign HW 7.3**
- ☐ **WebAssign HW 7.4**

Study Tip of the Week:

Sometimes students write down all the homework problems, leaving three or four lines (or fewer) to solve each. Then they try to fit their solutions in the space they left. They often try to do too many steps at a time so that they can fit their answer in. But, this can lead to making mistakes AND it makes it difficult, when they go back a few weeks later, for them to follow what they did (or for me to follow it as well).

If you do want to write down all the problems at the beginning, give yourself lots of room for each – perhaps a half a page or a whole page. This psychologically "frees you up" to be more careful.

Also, students who work vertically (rather than horizontally) tend to make fewer errors and they are easier to spot, rather than students with horizontal work.

Preparation for Midterm 2

Task	Where to find it
Sign up for exam (hopefully you did this already)	https://uonline.utah.edu
Take Practice Exam 2	Class web page (at the bottom)
Check Practice Exam answers against the key	Class web page (at the bottom)