

1050 Week at a Glance:

Week 11

Math 1050-90

Objectives

9.2 Arithmetic sequences

- Recognize, write and find the n th terms of arithmetic sequences.
- Find the n th partial sums of arithmetic sequences.
- Use arithmetic sequences to model and solve real-life problems.

9.3 Geometric sequences

- Recognize, write and find the n th terms of geometric sequences.
- Find the n th partial sums of geometric sequences.
- Find the sums of infinite geometric sequences.
- Use geometric sequences to model and solve real-life problems.

Note: We skip Section 9.4 Mathematical Induction. (This is a technique used to prove theorems that involve sequences, like the binomial theorem.)

9.5 Binomial Theorem

- Use the Binomial Theorem to calculate binomial coefficients.
- Use Pascal's Triangle to expand and calculate binomial coefficients
- Find the n th term in a binomial expansion.

Study Tip of the Week:

Finish off this week as strong as possible, so you can spend time preparing for the final exam, which is next week. Make sure you have registered to take the final exam, at <https://uonline.utah.edu>. Do the problems at the end of each chapter (that we've covered) in the text book, listed as chapter review problems. Take advantage of the resources on the class web page to help you study for the final exam. And, keep a positive attitude about your abilities. :)

To Do:

For Lessons 9.2, 9.3, 9.5

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

Some of the writing in the 8.5 video goes off the screen. You may find it helpful to have the completed notes printed out when watching it.

Due by Sun 11 pm

- Canvas Quiz Week 11

Due by Mon of next week, 11 pm

- WebAssign HW 9.2
- WebAssign HW 9.3
- WebAssign HW 9.5