

## Math 70 Topics for the Final Exam

This is a list of topics from the last 3 weeks of class, but the final is comprehensive. For the topics from the first 7 weeks of class, look at the List of Topics for Exam 1 and Exam 2.

### Chapter 4: Exponents and Polynomials

- Rules of Exponents - §4.1
  - The key to this section is knowing which exponential rule to use, so make sure to practice some of these problems. You can always go back to the way exponents are defined if it is difficult to tell which rule to use. Make sure to write these rules on your notesheet.
- Negative Exponents ( $x^{-n} = \frac{1}{x^n}$ ) - §4.2
- Scientific Notation - §4.2
- Polynomials (Degree of a term, Degree of a polynomial) - §4.3
- Adding and Subtracting Polynomials (Combine like-terms) - §4.3
- Multiplying Polynomials - §4.4
  - Multiplying a monomial and a polynomial (Distribute)
  - Multiplying two binomials (FOIL)

### Chapter 7: Graphing

- The Rectangular Coordinate System ( $xy$ -plane) - §7.1
  - Points,  $x$ -axis,  $y$ -axis
  - Linear equations
- Graphing a Linear Equation - §7.2

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Make sure to review the assigned homework problems and old quizzes. Taking each quiz again is a good idea. You can print out blank quizzes and exams at the following site:

[www.shoreline.edu/jlovejoy/Math70a.htm](http://www.shoreline.edu/jlovejoy/Math70a.htm)

Make sure to **pace yourself** by starting to study at least a week ahead of time. For example, you can take one or two quizzes each day to help you identify topics that you need to study further.

Here are **some** good review problems from the end of each of the chapters.

- Ch. 0 Review (pgs. 63-65): 1-37(Odd), 42, 43-61(Odd), 69
- Ch. 1 Review (pgs. 128-131): 1-67 (Odd), 71-77(Odd), 81, 85-101 (Odd), 102
- Ch. 2 Review (pgs. 183-185): 1-33 (Odd), 45-53 (Odd)
- Ch. 3 Review (pgs. 241-242): 1-7 (Odd), 11-16, 19, 20, 22
- Ch. 4 Review (pgs. 295-297): 1-17 (Odd), 18, 21, 25-33 (Odd), 43-49 (Odd), 51-61 (Odd)
- Ch. 7 Review (pg. 461): 1-8