

Math 195Q  
Spring 2006

## Final Exam Material and Review Exercises

**Date: Thursday, May 4, 10:30 - 12:30, MSB 315**



Review Class (optional attendance): Tuesday, May 2, 12:30 - 2:30, MSB 315

Office hours in week of Final Exams: Tuesday 2:30 - 3:30, and Wednesday 2:30 - 3:30  
and I will be in my office Thursday around 9:30

### Material:

- **Sections covered:** (5.5, 5.6, 5.7, 6.1), 6.2, 7.1, 7.2, 7.6 (partial), 9.3, 9.4, 9.5, 9.7 (partial)
- **Homework sections for the Final Exam:** 6.2, 7.1, 7.2, 7.6, 9.3, 9.4, 9.5, 9.7  
Individual homework points total = 8
- **Group Projects:** Skid Marks, Black Bear Population, Puzzled by Logs?  
Group Work points total = 4
- Final Exam point total = 88 points.
- No Calculators allowed during the Exam.
- You may bring all the colorful handouts.

### Chapter 5

- **Concepts:** Factoring out GCF, roots and the quadratic formula for roots, factoring trinomials, factoring polynomials completely, factoring using the formula  $a^2 - b^2 = (a + b)(a - b)$
- **Read:** Highlights: pages 355-358: 5.5, 5.6, 5.7
- **Review Exercises:** pages 358-360: (5.5) 75-75-80, (5.6) 86-96, (5.7) 100-107, 116, 118
- **Test:** page 361: 15-19, 21-22, 28

### Chapter 6

- **Concepts:** Divide, multiply, simplify, add and subtract rational expressions.
- **Read:** Highlights: page 434: 6.1, 6.2
- **Review Exercises:** pages 438-439: (6.1) 7-15, 17-23, 25- 37, (6.2) 38-54, 56-60
- **Test:** page 442: 3-4, 6-11, 18-20

### Chapter 7

- **Concepts:** Radicals, rational exponents, radical equations, Pythagorean Theorem
- **Read:** Highlights: page 507: 7.1, 7.2, 7.6 (only type of equations covered in class)
- **Review Exercises:** pages 483: 1-19; pages 510-511: (7.1) 1-23 (7.2) 26-54 (7.6) 102-104, 108-111; pages 514-516: 29,33,34,47,48
- **Test:** page 513: 1-10,31,33,34

### Chapter 9

- **Concepts:** Exponential and Logarithmic functions, properties and equations.
- **Read:** Highlights: pages 646-648: 9.3,9.4,9.5,9.7 (only type of equations covered in class)
- **Review Exercises:** pages 627-628: 16,18,20-37; pages 649-651: (9.3) 32-41 (9.4) 45-60 (9.5) 65-78 (9.7) 105,106,111-115
- **Test:** page 652: 10-13,15,17-20,22,24,27