The third exam is on Wednesday November 14th. You will have one hour, 1:30pm-2:30pm, to complete the exam. **No notes will be allowed during the exam.** A scientific calculator will be allowed.

The exam will cover sections: 7.1, 7.2, 7.3, 7.4, 7.5 and 7.6 from the book. Make sure you are comfortable with all of the assigned homework problems from these sections.

Topics and Breakdown of the Exam

- **(20 points)** Be able to evaluate radical functions. Be able to determine the domain of a square root function. Know the vocabulary: index, radical sign, radicand and radical expression. Be able to distinguish between roots and principal roots.

- **(20 points)** Be able to convert between radical notation and rational exponents. Be able to use the properties of rational exponents to simplify radical expressions and expressions containing rational exponents.

- **(20 points)** Be able to use the product rule and quotient rule for radicals to simplify radical expressions.

- **(20 points)** Be able to combine like radicals. Be able to rationalize denominators involving one or two radicals.

- **(20 points)** Be able to solve radical equations. Be able to use models given by radical functions to solve problems.