Ma 095 ~ Rational Expressions
PreTest Study Guide

For this test, you will have to demonstrate proficiency in the following skills:

- Simplify a rational expressions (Ex: $\frac{x^2+3x-10}{x^2-9x+14}$)
- Add, subtract, multiply, or divide rational expressions (Ex: $\frac{x^2-8x+7}{x^2+3x-4} \times \frac{x^2+3x-10}{x^2-9x+14}$) Remember, if you are adding or subtracting fractions, you need a common denominator. That is true here also!
- Solve equations that contain rational expressions (Ex: $1 + \frac{4}{x-2} = \frac{3x}{x-2}$) Hint: Find the LCD of all fractions in the problem and multiply everything by that LCD to eliminate the fractions.
- Simplify complex fractions (fractions within fractions, Ex: $\frac{1+\frac{3}{x}}{1-\frac{9}{x^2}}$) Similar hint: Find the LCD of all fractions within the fraction and multiply the numerator and denominator by that LCD. This will eliminate the fractions on top of fractions and allow you to simplify.
- *No* applications this time!!! (There aren't many "practical" applications here!)