

Ma 094 ~ Factoring PreTest Study Guide

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

- Finding the Greatest Common Factor between 2 monomials
- Factoring trinomials in the form of $x^2 + bx + c$ or $ax^2 + bx + c$, recognizing and factoring perfect square trinomials and difference of squares
- Factoring by grouping
- Finding the solutions to equations that are quadratic (Ex: $x^2 + 2x = 15$)
- Finding the solutions to quadratic equations that are not factorable over the integers (need to use the quadratic formula)
- Finding and using the discriminant of a quadratic equation (Hint: part of the quadratic formula)
- Knowing what happens to the imaginary number i ($\sqrt{-1}$) when it is squared, cubed, 4th-ed, etc.
- Finding the conjugate of a complex number and multiplying the number by the conjugate
- Adding or multiplying two complex numbers
- Applying any of the above to a real-world situation