

Mathematics 109

Professor Alan H. Stein

Due Monday, October 31, 2005

Name: _____

Graded Homework Assignment

This homework assignment will be graded and counted in the same way a quiz would be graded and counted. It will be worth ten (10) points or one-tenth of an exam. Please adhere to the instructions given for problem sets, with the exception that it will not be necessary to include a signed pledge form.

1. Factor $x^4 - 18x^2 + 32x - 15$ completely.
2. Solve the equation $x^4 - 18x^2 + 32x - 15 = 0$.
3. Solve the inequality $x^4 + 32x \geq 18x^2 + 15$.
4. Devise a question that is equivalent to Question 2 but does not refer to any equation.