

Lab 1 for Math 215

Monday - February 4th, 2008

Student's Name: _____

Instructions: Show all your work for full credit. Indicate your answers clearly.

Problem 1. Determine whether 1125899839733759 is a prime number or not.

Problem 2. Determine whether 18014398241046529 is a prime number or not.

Problem 3. On the same graph, plot the function $f(x) = x^4 - 2x^2 + 3$ for $x \in [0, 10]$ together with the tangent line at the point $P = (2, 11)$.

Problem 4. Let F_n stand for the n -th term in the Fibonacci sequence. Find F_{10}/F_9 , F_{100}/F_{99} , F_{150}/F_{149} .