

Math 595 – Homework assignment #1
posted January 28, 2009; due Friday, February 6, 2009

Exercises

1. Let $F(T)$ be a rational function of T , i.e., a function of the form $A(T)/B(T)$, where $A(T)$ and $B(T)$ are polynomials with integer coefficients. Show that if $F(T)$ is nonconstant, then it cannot be the case that $F(n)$ is prime for every natural number n .
2. Exercise 3.
3. Exercise 9.
4. Exercise 10.
5. Exercise 15.
6. Exercise 16.
7. Exercise 19.
8. Exercise 28.