Your Name:_____

MA 261 — Quiz #6
Friday, March 28, 2014

1. Theorem 2.33
Let k be a natural number. Then there exists a natural number n (which will be much larger than k) such that no natural number less than k and greater than 1 divides n.

2. Illustrate the method you used to prove Theorem 2.33 when $k = 4$.

Bonus. Theorem 1.39

Let a and b integers. If there exists integers x and y with $ax + by = 1$, then $\gcd(a, b) = 1$.