187 §3- DISCRETE MATHEMATICS - Quiz 9

Instructor: Andrés E. Caicedo

November 8, 2011

Name _____

1. Find the GCD of 851 and 1518 using the Euclidean algorithm.

2. Suppose that $GCD(a, b) = 1$. Prove that $GCD(a, b^2) = 1$.

   [Here is a hint: $GCD(c, d) = 1$ if and only if the equation $cx + dy = 1$ has integer solutions x, y. Now, if $ax + by = 1$, you can square this equation.]