HIT — Cryptography — Homework 5

September 15, 2014

Problem 1. Compute $[101^{4,800,000,023} \bmod 35]$ (by hand).

Problem 2. Let $N = pq$ be a product of two distinct primes. Show that if $\phi(N)$ and N are known, then it is possible to compute p and q in polynomial time.