

Theory of Computation

Homework 4

Due: 2013/12/10

Problem 1. Determine if $x^4 \equiv 25 \pmod{1013}$ is solvable or not.

Problem 2. Prove that if $\mathbf{NP} \subseteq \mathbf{coRP}$, then $\mathbf{ZPP} = \mathbf{NP}$