HOMEWORK 2

DUE 24 JANUARY 2013

1. Problem 1, Section 5.3 from the textbook.

2. Problem 4, Section 5.3 from the textbook.

3. Problem 5ab, Section 5.3 from the textbook.

4. Compute the following Legendre symbols.

(a) $\left(\dfrac{2819}{4177}\right)$

(b) $\left(\dfrac{2896}{4177}\right)$

5. Determine whether the integer A is a quadratic residue or nonresidue modulo p for the following integers.

(a) $A = 500, p = 4219$.

(b) $A = 2003, p = 2011$.

(c) $A = 1903, p = 2011$.