

From the book: page 99 number 2, 3
 page 102 number 1,
 page 108 numbers 1, 9,
 page 113 number 3

Additional problem3

1. Use the Law of Quadratic Resiprocity to solve

a. $\left(\frac{85}{101}\right)$ b. $\left(\frac{29}{541}\right)$ c. $\left(\frac{101}{2009}\right)$

1. Does $x^2 + 14x - 35 \equiv 0 \pmod{337}$ have solutions? Note: 337 is prime.

2. Does $x^2 - 3x - 1 \equiv 0 \pmod{31957}$ have solutions? (31957 is prime.)