

Problem Set 2
Due Friday, October 12.

Algebra

Math 110A, Fall Quarter 2012

1. Do problems 1.3.9, 1.3.11, 1.3.25 in the textbook.
2. Do problems 2.1.2, 2.1.10, 2.1.14, 2.1.21 in the textbook.
3. Show that the congruence $x^2 \equiv 35 \pmod{100}$ has no solution. (Hint: if $x^2 \equiv 35 \pmod{100}$, then $x^2 \equiv 5 \pmod{10}$.)