

Problem Set 2
Due Friday, October 13.

Algebra

Math 110A, Fall Quarter 2017

1. Do problems 1.3.9, 1.3.11, 1.3.25, 1.3.27 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 $x^2 \equiv 5 \pmod{10}$.)