

Seventh Homework Assignment

10/29: Chapter 20 7,15,21

11/1: Chapter 20 25,29,31

11/3: Chapter 21 7,9,11

11/5: Chapter 21 15,23,35

Turn-in problems due 10/22 (do 10 problems): Chapter 20 2,10,12,20,26,32;
Chapter 21 6,8,10,18,30,34

★ **problem:** Show that the polynomial $p(x) = x^p - x - a$ is irreducible over \mathbb{Z}_p if and only if $a \neq c^p - c$ for any $c \in \mathbb{Z}_p$.