Fall 2022, Math 522: Preliminary Problem Set 12
Due: Friday, November 18th, 2022
Qudratic Residues

Preliminary problems. These problems should be completed before discussion.

(P1) Find all quadratic residues modulo 11.

(P2) Find $\left(\frac{a}{11}\right)$ for $a = 0, 1, \ldots, 10$.

(P3) Write down the formulas for $\left(\frac{-1}{p}\right)$ and $\left(\frac{2}{p}\right)$ from class (these will be useful both during discussion **and** when working on the homework).