

Math 175: Elementary Number Theory

Syllabus: Week 5

Quadratic reciprocity law

- Table in p.130 of [Jones-Jones].
- Statement of the quadratic reciprocity law.
- Algorithm to calculate the Legendre symbol.
- Euler criterion.
- Gauss Lemma.
- Elementary proof of the quadratic reciprocity law, as in p. 133 of [Jones-Jones].