

# Review and Extension: Primes

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## 1 Key concepts for this term

- $\nu_p$  notation and basic properties
- Legendre's Formula
- LTE
- Orders
- Generators
- Existence of a generator
- Hensel's Lemma
- Quadratic residues
- Jacobi symbol
- Euler's criterion
- Gauss' Lemma
- Quadratic reciprocity

## 2 Homework

Solve and submit any 3 problems from this term's problems sections that weren't covered in class.