

N.7 Quadratic Residues

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A pattern related to the number of quadratic residues in \mathbb{Z}_p , is that the number of quadratic residues is roughly half the cardinality of \mathbb{Z}_p , excluding $p = 2$ and $p = 5$ because the number of quadratic residues is equal to their cardinality.

There really isn't much of a pattern related to whether $-1 \in \mathbb{Z}_p$ is a quadratic residue to the value of p .