

Weekly Excercise 5

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Problem 1.

Find all Solutions to the equation $x^2 \oplus x = [0]$ in \mathbb{Z}_4

Proof.

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Problem 2.

(1) Prove: If $[a] \in \mathbb{Z}_n$ is a unit, then $[a]$ is not a zero divisor.

(2) Prove: If $[b] \in \mathbb{Z}_n$ is a zero divisor, then $[b]$ is not a unit.

Proof.

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