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Exercise for the lecture Distributed Storage and Computer Forensic Winter 2011/12

Sheet 3

EXERCISE 3:

Consider the $GF(2^2)$ with the irreducible polynome $x^2 + x + 1$

- 1. Create an exponential and logarithm table for this field.
- 2. Create a 3x3 Vandermonde Matrix.
- 3. Invert the Vandermonde Matrix.
- 4. What is the largest invertible Vandermonde Matrix over this field?