

UNIVERSITY OF CALIFORNIA, DAVIS
Error Correcting Codes I

PROBLEM SET 2

Reading Assignment: Lecture Notes 2. Textbook: Chapter 2.

Solve problems by hand, i.e., do not use symbolic and/or numerical mathematics software package to solve the problems. However, you can use them, if you want, to check your answers.

Problem 2.4 Give the addition and the multiplication tables. **Change** “determine the orders of other elements” to “determine the orders of other *nonzero* elements”.

Problem 2.14 The table should be like Table 2.8 in textbook but for $\text{GF}(2^5)$.

Problem 2.17

Problem 2.19