MATH 447/MATH 747
Fall 2022

Assignment #3

The assignment is due Tuesday 11 October at 10pm.

Study Appendix A and Sections 3.1 through 3.3.

Solve Chapter 3 Exercises 3, 4(ab), 8, 17, 18, 41, 46, 69, 79.

MATH 747 students only:
Solve Chapter 3 Exercise 19.

Assignment Project Exam Help
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Remarks:
1. Exercise 3 does not specify the code alphabet. Assume that the code is binary, that is, code alphabet is $GF(2)$.
2. Exercise 41 is missing a comma at the end of its second line. That is, the following two statements are to be proved:
(a) C' is an $(n, k-1)$-code (no matter if d is even or odd).
(b) If d is odd, then $d' > d$.