

MATE 5049 assignment 3

10. Problem 5, p. 72.
11. Problem 7, p. 72.
12. A variant of the Gram-Schmidt algorithm on pp. 54–55 is first to construct inductively a set of orthogonal vectors (not necessarily of length one), then to scale them so as to obtain an orthonormal set. Are the two methods equivalent?
13. Problem 21, p. 76.
14. Problem 23, p. 76.