

2550 Test 2 Study Guide

Below are the topics covered on test 2.

If a problem isn't mentioned below, then it isn't on the test.

HW 4 Part 1 –

- Verify if A and B are inverses. Calculating the inverse of a matrix (see problems 1,2,3,4)
- Using the inverse of a matrix to solve a system of linear equations (see problem 5).

HW 5 Part 1 –

- Being able to calculate the determinant of a matrix. Use the determinant to verify whether or not matrix is invertible (problems 1 and 2).

HW 6 Part 2 –

- By able to show whether or not a subset W of a vector space V is a subspace or not. You use the three-part proof method for this like in class and the homework. (problems 1,2,3)

HW 7 Part 1 – Not all of HW 7 will be on test 2. Only the topics listed below.

- Listing some vectors in the span of some vectors. Determining if a vector is in the span of some vectors. (problems 1, 2, 3)
- Determining if a set of vectors is linearly independent or linearly dependent. (problems 4, 5)