

2550 Final Exam Study Guide

The final exam is cumulative and covers: Test 1 material, Test 2 material, HW 7, HW 8.

Here is a breakdown:

- Test 1 material (see the test 1 study guide and test 1)
- Test 2 material (see the test 2 study guide and test 2)
- Homework 7 – Part 1
 - Determine if a set of vectors is a basis for a vector space.
See problems 6, 7, 8, 9(a), 10(a), 12.
 - Find the coordinates of a vector in terms of an ordered basis.
See problems 9(b,c), 10(b,c), 11.
- Homework 7 – Part 2
 - HW 7 part 2 will not be on the final.
- Homework 8
 - For a matrix A , find the eigenvalues of A , a basis for each eigenspace, and the algebraic and geometric multiplicity of each eigenvalue.
See Problem 1(a,b,c,d,e).