

PROBLEM SET 1, 25600 SECTION 31

Due Friday April 3 in class.

1. (10 points) State and prove a general result about the idempotents E_i of a diagonal matrix A . (Look at Curtis, problem III.D(1) first if you cannot guess the appropriate statement.)
2. (5 points) Curtis, problem III.D (3).
3. (5 points) Curtis, problem III.D (4).
4. (5 points) Curtis, problem III.E (1), part (iii).
5. (8 points) Curtis, problem III.E (4).