

Definitions for Final Exam

Math 2270, Fall 2006

Define the following notions and give an example of each.

Chapter §8.

- (1) (page 364) Orthogonally diagonalizable matrix.
- (2) (8.2.1) Quadratic forms.
- (3) (8.2.3) Positive definite, positive semidefinite, negative definite, negative semidefinite and indefinite symmetric matrix A .
- (4) (8.2.6) Principal axes of a quadratic form.
- (5) (8.3.1) Singular values.