

ASSIGNMENT 10

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Exercise 1: (25 points) Problem D-I, Page 1226, CLRS.

Exercise 2:(25 points)

- a) Show that if A is a symmetric and nonsingular matrix, then A^{-1} is also symmetric.
- b) Show that every $n \times n$ matrix can be represented as a sum of symmetric matrix and a skew-symmetric matrix.

Exercise 3: (25 points)

Exercise 32.1-3 page 989 CLRS.

Exercise 4 (25 points)

Exercise 32.1-4 page 989 CLRS.