

HOMEWORK 9

#	Question ID	Objective
1	2.1.1	Compute sums, products, and scalar products of matrices.
2	2.1.3	Compute sums, products, and scalar products of matrices.
3	2.1.5	Compute sums, products, and scalar products of matrices.
4	2.1.7	Demonstrate understanding of theorems and properties about matrix operations and transposes.
5	2.1.9	Given information about a matrix product AB and one factor A , determine properties or entries of B .
6	2.1.11	Given information about a matrix product AB and one factor A , determine properties or entries of B .
7	2.1.12	Given information about a matrix product AB and one factor A , determine properties or entries of B .
8	2.1.17	Given information about a matrix product AB and one factor A , determine properties or entries of B .

HOMEWORK 10

#	Question ID	Objective
1	2.2.1	Find the inverse of a matrix.
2	2.2.7	Use the inverse of a matrix to solve linear systems.
3	2.2.9	Prove theorems and demonstrate concept knowledge about the invertability of matrices.
4	2.2.17	Prove theorems and demonstrate concept knowledge about the invertability of matrices.
5	2.2.21	Prove theorems and demonstrate concept knowledge about the invertability of matrices.
6	2.2.24	Prove theorems and demonstrate concept knowledge about the invertability of matrices.
7	2.2.31	Find the inverse of a matrix using row reduction.
8	2.3.3	Determine if a matrix is invertible.
9	2.3.5	Determine if a matrix is invertible.
10	2.3.7	Determine if a matrix is invertible.
11	2.3.11	Demonstrate understanding of concepts and theorems about matrix invertability.

HOMEWORK 11

#	Question ID	Objective
1	2.8.1	Explain why a set is not a subspace of \mathbb{R}^n .
2	2.8.5	Find a vector in a vector space, or determine if a vector is in a vector space.
3	2.8.8	Find a vector in a vector space, or determine if a vector is in a vector space.
4	2.8.9	Find a vector in a vector space, or determine if a vector is in a vector space.
5	2.8.12	Demonstrate understanding of concepts around the null and column spaces of a matrix.
6	2.8.13	Find a vector in a vector space, or determine if a vector is in a vector space.
7	2.8.17	Determine if sets of vectors are a basis for \mathbb{R}^n .
8	2.8.23	Find the column space and the null space of a matrix.
9	2.8.31	Demonstrate understanding of concepts around the null and column spaces of a matrix.
10	2.8.33	Demonstrate understanding of concepts around the null and column spaces of a matrix.