

HOMEWORK 18

#	Question ID	Objective
1	4.3.3	Determine whether a set is a basis for \mathbb{R}^3 .
2	4.3.5	Determine whether a set is a basis for \mathbb{R}^3 .
3	4.3.8	Determine whether a set is a basis for \mathbb{R}^3 .
4	4.3.9	Find a basis for a null space and a column space.
5	4.3.11	Find a basis for a null space and a column space.
6	4.3.13	Find a basis for a null space and a column space.
7	4.3.16	Find a basis for a null space and a column space.
8	4.3.22	Understand concepts related to linear independence and bases.
9	4.3.25	Understand concepts related to linear independence and bases.
10	4.3.26	Find a basis for a subspace of real-valued functions.

HOMEWORK19

#	Question ID	Objective
1	4.5.3	Find the dimension of a subspace.
2	4.5.4	Find the dimension of a subspace.
3	4.5.6	Find the dimension of a subspace.
4	4.5.8	Find the dimension of a subspace.
5	4.5.9	Find the dimension of a subspace.
6	4.5.10	Find the dimension of a subspace.
7	4.5.11	Find the dimension of a subspace.
8	4.5.12	Find the dimension of a subspace.
9	4.5.13	Find the dimensions of the null and column spaces for a matrix.
10	4.5.14	Find the dimensions of the null and column spaces for a matrix.
11	4.5.22	Find bases and coordinate vectors in polynomial space.

HOMEWORK 20

#	Question ID	Objective
1	4.6.1	Find bases for the column, row, and null spaces of a matrix.
2	4.6.4	Find bases for the column, row, and null spaces of a matrix.
3	4.6.6	Use the rank theorem.
4	4.6.7	Use the rank theorem.
5	4.6.8	Use the rank theorem.
6	4.6.9	Use the rank theorem.
7	4.6.11	Use the rank theorem.
8	4.6.13	Use the rank theorem.
9	4.6.14	Use the rank theorem.
10	4.6.18	Understand concepts related to row space and rank.
11	4.6.19	Apply the rank theorem to systems of equations.
12	4.6.20	Apply the rank theorem to systems of equations.
13	4.6.22	Apply the rank theorem to systems of equations.