

Linear Algebra Vector Spaces

4.3 SOLUTIONS

Notes: The definition for basis is given initially for subspaces because this emphasizes that the basis elements must be in the subspace. Students often overlook this point when the definition is given for a vector space (see Exercise 25). The subsection on bases for $\text{Nul } A$ and $\text{Col } A$ is essential for Sections 4.5 and 4.6. The subsection on “Two Views of a Basis” is also fundamental to understanding the interplay between linearly independent sets, spanning sets, and bases. Key exercises in this section are Exercises 21–25, which help to deepen students’ understanding of these different subsets of a vector space.

1. Consider the matrix whose columns are the given set of vectors. This 3×3 matrix is in echelon form, and has 3 pivot positions. Thus by the Invertible Matrix Theorem, its columns are linearly independent and span $\mathbf{R}^3$. So the given set of vectors is a basis for $\mathbf{R}^3$.
2. Since the zero vector is a member of the given set of vectors, the set cannot be linearly independent and thus cannot be a basis for $\mathbf{R}^3$. Now consider the matrix whose columns are the given set of vectors. This 3×3 matrix has only 2 pivot positions. Thus by the Invertible Matrix Theorem, its columns do not span $\mathbf{R}^3$.

3. Consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\begin{bmatrix} 1 & 3 & -3 \\ 0 & 2 & -5 \\ -2 & -4 & 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 0 & 9/2 \\ 0 & 1 & -5/2 \\ 0 & 0 & 0 \end{bmatrix}$$

so the matrix has only two pivot positions. Thus its columns do not form a basis for $\mathbf{R}^3$; the set of vectors is neither linearly independent nor does it span $\mathbf{R}^3$.

4. Consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\begin{bmatrix} 2 & 1 & -7 \\ -2 & -3 & 5 \\ 1 & 2 & 4 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

so the matrix has three pivot positions. Thus its columns form a basis for $\mathbf{R}^3$.

5. Since the zero vector is a member of the given set of vectors, the set cannot be linearly independent and thus cannot be a basis for $\mathbf{R}^3$. Now consider the matrix whose columns are the given set of vectors. The reduced echelon form of this matrix is

$$\begin{bmatrix} 1 & -2 & 0 & 0 \\ -3 & 9 & 0 & -3 \\ 0 & 0 & 0 & 5 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

so the matrix has a pivot in each row. Thus the given set of vectors spans $\mathbf{R}^3$.

Solution Manual Linear Algebra Vector Spaces

Gareth Williams



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Solutions Manual for Lang's Linear Algebra Rami Shakarchi, 2012-12-06 The present volume contains all the exercises and their solutions of Lang's Linear Algebra Solving problems being an essential part of the learning process my goal is to provide those learning and teaching linear algebra with a large number of worked out exercises Lang's textbook covers all the topics in linear algebra that are usually taught at the undergraduate level vector spaces matrices and linear maps including eigenvectors and eigenvalues determinants diagonalization of symmetric and hermitian maps unitary maps and matrices triangulation Jordan canonical form and convex sets Therefore this solutions manual can be helpful to anyone learning or teaching linear algebra at the college level As the understanding of the first chapters is essential to the comprehension of the later more involved chapters I encourage the reader to work through all of the problems of Chapters I II III and IV Often earlier exercises are useful in solving later problems For example Exercise 35.3 of Chapter II shows that a strictly upper triangular matrix is nilpotent and this result is then used in Exercise 7.1 of Chapter X To make the solutions concise I have included only the necessary arguments the reader may have to fill in the details to get complete proofs Finally I thank Serge Lang for giving me the opportunity to work on this solutions manual and I also thank my brother Karim and Steve Miller for their helpful comments and their support

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