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Upon completion of this unit, you should be able to

• Determine when systems do not have a unique solution and recognize the general solution for a system.

- Use and understand set notation.
- Determine if a given subset of [mathjaxinline] \mathbb{R}^n [/mathjaxinline] is a subspace.
- For simple examples, determine the null space and column space for a given matrix.
- Identify, apply, and prove simple properties of sets, vector spaces, subspaces, null spaces and column spaces.
- Recognize for simple examples when the span of two sets of vectors is the same.
- Determine when a set of vectors is linearly independent by exploiting special structures. For example, relate the rows of a matrix with the columns of its transpose to determine if the matrix has linearly independent rows.
- For simple examples, find a basis for a subspace and recognize that while the basis is not unique, the number of vectors in the basis is.

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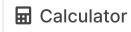
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