

15. Let S_1 and S_2 be subsets of a vector space V . Prove that $\text{span}(S_1 \cap S_2) \subseteq \text{span}(S_1) \cap \text{span}(S_2)$. Give an example in which $\text{span}(S_1 \cap S_2)$ and $\text{span}(S_1) \cap \text{span}(S_2)$ are equal and one in which they are unequal.
16. Let V be a vector space and S a subset of V with the property that whenever $v_1, v_2, \dots, v_n \in S$ and $a_1v_1 + a_2v_2 + \dots + a_nv_n = \theta$, then $a_1 = a_2 = \dots = a_n = 0$. Prove that every vector in the span of S can be uniquely written as a linear combination of vectors of S .
17. Let W be a subspace of a vector space V . Under what conditions are there only a finite number of distinct subsets S of W such that S generates W ?

1.5 LINEAR DEPENDENCE AND LINEAR INDEPENDENCE

Suppose that V is a vector space over an infinite field and that W is a subspace of V . Unless W is the zero subspace, W is an infinite set. It is desirable to find a "small" finite subset S that generates W because we can then describe each vector in W as a linear combination of the finite number of vectors in S . Indeed, the smaller that S is, the fewer computations that are required to represent vectors in W . Consider, for example, the subspace W of $\mathbb{R}^3$ generated by $S = \{u_1, u_2, u_3, u_4\}$, where $u_1 = (2, -1, 4)$, $u_2 = (1, -1, 3)$, $u_3 = (1, 1, -1)$, and $u_4 = (1, -2, -1)$. Let us attempt to find a proper subset of S that also generates W . The search for this subset is related to the question of whether or not some vector in S is a linear combination of the other vectors in S . Now u_4 is a linear combination of the other vectors in S if and only if there are scalars a_1, a_2 , and a_3 such that

$$u_4 = a_1u_1 + a_2u_2 + a_3u_3,$$

that is, if and only if there are scalars a_1, a_2 , and a_3 satisfying

$$(1, -2, -1) = (2a_1 + a_2 + a_3, -a_1 - a_2 + a_3, 4a_1 + 3a_2 - a_3).$$

Thus u_4 is a linear combination of u_1, u_2 , and u_3 if and only if the system of linear equations

$$\begin{aligned} 2a_1 + a_2 + a_3 &= 1 \\ -a_1 - a_2 + a_3 &= -2 \\ 4a_1 + 3a_2 - a_3 &= -1 \end{aligned}$$

has a solution. The reader should verify that no such solution exists. This does not, however, answer our question of whether some vector in S is a linear combination of the other vectors in S . It can be shown, in fact, that u_3 is a linear combination of u_1, u_2 , and u_4 , namely, $u_3 = 2u_1 - 3u_2 + 0u_4$.

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