Readiness Assurance Test

Choose the most appropriate response for each question.

31) Suppose you know that every vector in $\mathbb{R}^5$ can be written uniquely as a linear combination of the vectors $\{\mathbf{v}_1, \ldots, \mathbf{v}_n\}$. What can you conclude about the set $\{\mathbf{v}_1, \ldots, \mathbf{v}_n\}$?

(a) It does not span and is linearly dependent

(b) It does not span and is linearly independent

(c) It is a basis of $\mathbb{R}^5$.

(d) It spans but it is linearly dependent