

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 $\{\mathbf{v}_1, \dots, \mathbf{v}_n\}$. What can you conclude about the set $\{\mathbf{v}_1, \dots, \mathbf{v}_n\}$?
- (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