Axler6.B #9 May 4, 2021

1 | Problem

What happens if the Gram–Schmidt Procedure is applied to a list of vectors that is not linearly independent?

2 | Answer

Suppose the list v_1, \dots, v_n is linearly dependent. Then, there exists some v_j s.t. v_1, \dots, v_{j-1} is linearly independent

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