#incomplete

1 | **Overview**

- Exists over a KBe20math530refFieldand it's two operations (primary: addition, and secondary: multiplication)

2 | **Finite Dimensional Vector Spaces**

- Notes originally based on Axler Linear Algebra Done Right 3rd addition chapter 2 | | | |-|-| Linear Combination | KBe20math530refLinearCombination Span | KBe20math530refSpan Polynomial | KBrefPolynomial Linear Independence | KB20math530refLinearIndependence ## #definition finite-dimensional vector space > some (finite length) list of vectors in it spans the space. (Axler 2.10) ### #definition infinite-dimensional vector space > A vector space that isn't finite dimensional