

**Source:** 2020MATH530/KBe2020math530index.md

#ref #disorganized #incomplete

## 1 | #definition dimension

The dimension of  $V$  (denoted  $\dim V$ ) is the length of a basis in  $V$  - This relies on Axler 2.35: Basis length does not depend on the basis Any two bases of a finite-dimensional vector space have the same length

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