#flo #inclass

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1 | **Basis**

```
title: lemma
something you prove with the intention to prove something else
```

easy way to check if something if linearly dependent: if there are more vectors than dimension!

- spanning sets need to be >= len as the dimension
  - else it wont have all the nessasarry info
  - but it needs to be the same as the dimension for it to be a **basis**
    - linearly independent and spanning

1.0.1 | One way to get anywhere = one way to get 0

true for 0, true for any other vec - KBxChapter2BReading#criterion for basis - going over the proof for this.

1.0.2 | making something a basis

- linearly independent can be added to and turned into a basis,
- spanning set can be removed from and turned into a basis