#flo #hw

1 | Finite-Dimensional Vector Spaces

title: Review F denotes R or C

V denotes a [[file:KBe20math530refVectorSpace.org] [KBe20math530refVectorSpace]] over F

- · lin alg does not focus on arbitrary vector spaces
- · it focuses on finite-dimensional vector spaces!

title: learning objectives for the chapter

- span
- linear independence
- bases
- dimension

notation:

- lists of vectors:
 - * (2,1,4),(3,2,5)
 - · list len 2 of vectors in R3
 - * n-tuples without surrounding parens
- · linear combination
 - a linear combination of x and y would be any expression of the form ax + by, where a and b are constants ~wiki
 - multiply each element in a list of vectors by an element in F
 - and then add them up!
 - any relation between the element scalar and what's being multiplied? can the scalars repeat?
 #question

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