#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