Source: [KBe20math530refVectorSpace]

1 | Overview

Intuition

• If you have a vector list v that is a linear combination of vectors in V, or equivalently,

$$v = a_1 v_1 + ... + a_m v_m$$
 where $v_1, ..., v_m \in V$

- And those choices of $a_1,...,a_m$ are unique, then this is a linear independence? ## #definition linearly independent > A list $v_1,...,v_m$ of vectors in V is called *linearly independent* if the only choice of $a_1,...,a_m \in F$ that makes $a_1v_1+...+a_mv_m$ equal 0 is $a_1=...=a_m=0$
- ^^^ what the heck is that last part #todo-exr

Exr0n · **2020-2021** Page 1