

finite dimensional space

2024 年 1 月 1 日

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1 span and linear independence

1.0.1 **Notation** list of vectors

we will usually write lists of vectors without surrounding parentheses.

1.0.2 **definition** linear combination

a **linear combination** of list v_1, \dots, v_m of vectors in V is a vector of the form

$$a_1v_1 + \dots + a_mv_m,$$

where $a_1, \dots, a_m \in F$