

## Contents

0.1 Linear dependence . . . . .	1
---------------------------------	---

### 0.1 Linear dependence

A collection of vectors in a vector space are linearly dependent if there exist values for  $\alpha$  (other than all being 0) such that:

$$\sum_i \alpha_i v_i = 0.$$

If no such values for  $\alpha$  exist we say the vectors are linearly independent.