

# Span

$$\text{span}\{\vec{v}_1, \vec{v}_2, \dots, \vec{v}_k\} = \{\lambda_1 \vec{v}_1 + \dots + \lambda_k \vec{v}_k \mid \lambda_i \in \mathbb{R} \text{ for all } i\}$$

**You can multiply any vector in the span by a scalar**

**Use this to remove fractions, decimals and negatives**