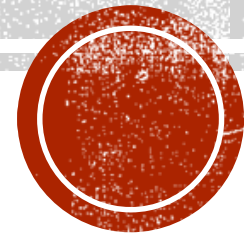


BASIS AND DIMENSION

Section 4.5



DEFINITION

A set of vectors $S = \{ \mathbf{v}_1, \mathbf{v}_2, \dots, \mathbf{v}_p \}$
in a vector space V is called a **basis**
for V if both

1. S spans V , and
2. S is linearly independent.

