

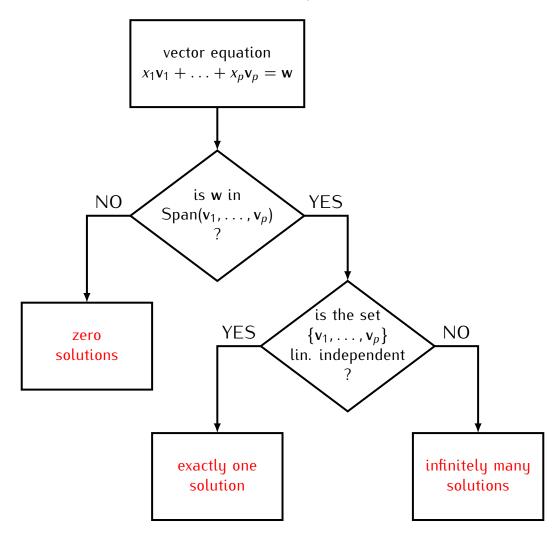
## Recall:

1) Span(
$$v_1, ..., v_p$$
) = 
$$\begin{cases} \text{the set of all} \\ \text{linear combinations} \\ c_1 v_1 + ... + c_p v_p \end{cases}$$

2) A set of vectors  $\{v_1, \ldots, v_p\}$  is linearly independent if the equation

$$x_1\mathbf{v}_1+\ldots+x_p\mathbf{v}_p=\mathbf{0}$$

has only one, trivial solution  $x_1 = 0, \ldots, x_p = 0$ .



## Linear independence vs. Span

