

Download this PDF to your computer and go to

www.livescribe.com/player

On iOS, open the PDF in Livescribe+.

$$c_1 u_1 + \dots + \underbrace{c_i u_i}_{\neq 0} + \dots + c_k u_k = 0$$

$$\underbrace{c_i u_i}_{} = -c_1 u_1 - c_2 u_2 - \dots - c_{i-1} u_{i-1} - c_{i+1} u_{i+1} - \dots - c_k u_k$$

$$\underbrace{u_i}_{} = \underbrace{-\frac{c_1}{c_i} u_1 - \frac{c_2}{c_i} u_2 - \dots - \frac{c_{i-1}}{c_i} u_{i-1} - \frac{c_{i+1}}{c_i} u_{i+1} - \dots + \frac{c_k}{c_i} u_k}_{}$$

$$\underbrace{u_i}_{} \in \text{Span}\{u_1, \dots, u_{i-1}, u_{i+1}, \dots, u_k\}$$

$$\text{Eller } S = \{u_i\}$$

$$\cdot \frac{c_j}{c_i} u_j = 0 \text{ was man auch ein lösen}$$

$$u_i = 0$$

$$c_1 u_1 + \dots + \underbrace{c_i}_{\neq 0} u_i + \dots + c_k u_k = 0$$

$$\underbrace{c_i u_i}_{} = -c_1 u_1 - c_2 u_2 - \dots - c_{i-1} u_{i-1} - c_{i+1} u_{i+1} - \dots - c_k u_k$$

$$\underbrace{u_i}_{} = -\frac{c_1}{c_i} u_1 - \frac{c_2}{c_i} u_2 - \dots - \frac{c_{i-1}}{c_i} u_{i-1} - \frac{c_{i+1}}{c_i} u_{i+1} - \dots + \frac{c_k}{c_i} u_k$$

$$\underbrace{u_i}_{} \in \text{Span}\{u_1, \dots, u_{i-1}, u_{i+1}, \dots, u_k\}$$

Eller $S = \{u_1\}$

$c_1 u_1 = 0$ hat unendlich viele Lösungen

$$u_1 = 0$$