

5.4.8

 $\mathbb{P}_2$  pol. av grad  $\leq 2$ Bas  $1, x, x^2$ .  $a + bx + cx^2$ 

Vise

$$P_1(x) = 1 + 2x$$

$$P_2(x) = x + x^2$$

$$P_3(x) = 3 + x \quad \text{linj. obru.}$$

$$P_1(x) = 1 + 2 \cdot x + 0 \cdot x^2 = (1 \ x \ x^2) \begin{pmatrix} 1 \\ 2 \\ 0 \end{pmatrix}$$

$$= x \begin{pmatrix} 1 \\ 2 \\ 0 \end{pmatrix}$$

$$t_1 P_1(x) + t_2 P_2(x) + t_3 P_3(x) = \vec{0} \quad (\text{ber. ekv})$$

$$t_1 \begin{pmatrix} 1 \\ 2 \\ 0 \end{pmatrix} + t_2 \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} + t_3 \begin{pmatrix} 3 \\ 1 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{array}{l} \text{L} \\ \text{L} \end{array} \left( \begin{array}{ccc|c} 1 & 0 & 3 & 0 \\ 2 & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 \end{array} \right) \Leftrightarrow \left( \begin{array}{ccc|c} 1 & 0 & 3 & 0 \\ 0 & 1 & -5 & 0 \\ 0 & 1 & 0 & 0 \end{array} \right)$$

$$\Leftrightarrow \begin{cases} t_1 + 3t_3 = 0 \\ t_2 - 5t_3 = 0 \\ t_2 = 0 \end{cases} \quad \begin{cases} t_1 = 0 \\ t_2 = 0 \\ t_3 = 0 \end{cases}$$

dus linj.  
obru.