ANA UT 2.) wie in 1.) DE LOCK, RM (RM, 11.110) 11D11 = Sup { || Dxlloo : x \in R n \ 903} Sei x E R 4 803 lel. X= (xn) 11 x11 = max 1xi1, $\|Dx\|_{\infty} = \max_{i=1,\dots,n} |\lambda_i \cdot x_i| \leq \max_{i=1,\dots,n} \|D\|_{\infty} \cdot |x_i| = \|D\|_{\infty} \cdot \|x\|_{\infty}$ $\|Dx\|_{\mathcal{D}} = \max_{i=1,...,n} |\lambda_i \cdot x_i| \leq \max_{i=1,...,n} \|x\|_{\mathcal{D}} \cdot \lambda_i = \|x\|_{\mathcal{D}} \cdot \|D\|_{\mathcal{D}}$ 11 ×1/00 = 11 D/100 · 11 ×1/60 = 11 D/100 40 11011 = sup & 110 x110 : XEIR", 11 x160 = 1} X = (1) hat || x||0 = max |1 = 1 $\|Dx\|_{\infty} = \|\begin{pmatrix}\lambda_1\\\lambda_2\\\lambda_n\end{pmatrix}\|_{\infty} = \max_{i=1,\dots,n} |\lambda_i| = \|D\|_{\infty}$ => 11011 = 11016s