Beispiel 3.8: Vektornormen

$$||x||_2 := \left(\sum_{i=1}^n x_i^2\right)^{1/2}$$
 ... Euklidische Vektornorm

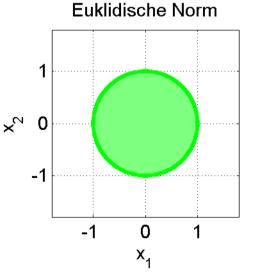
$$\|x\|_2$$
 := $(\sum_{i=1}^n x_i)$... Eukildisc $\|x\|_1$:= $\sum_{i=1}^n |x_i|$... 1-Norm

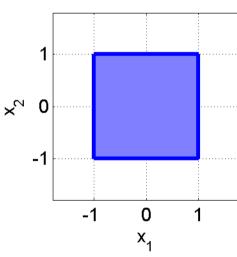
1 - Norm

$$\|x\|_{\infty} := \max_{i=1,\dots,n} |x_i|$$
 ... Maximumnorm, ∞ -Norm

Kugeln

 $\{x: \|x\| \leq 1\}$





Maximumnorm



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