

0.1 Norms of Linear application

[2CM]

In the following $(X, \|\cdot\|_X)$ and $(Y, \|\cdot\|_Y)$ will be normed spaces; $A : X \rightarrow Y$ is a linear application; we define the **induced norm** as

$$\|A\|_{X,Y} \stackrel{\text{def}}{=} \sup_{x \in X, \|x\|_X \leq 1} \|Ax\|_Y.$$

Exercises

E0.1 [11B]

E0.2 [11C]

E0.3 [11D]

E0.4 [11F]