Exercises

11.39 [11P] Show that if $A \in \mathbb{R}^{m\times n}$ you have

$$\max_{x\in\mathbb{R}^n, |x|_2\leq 1} |Ax|_2 = \max_{x\in\mathbb{C}^n, |x|_2\leq 1} |Ax|_2 \ .$$

Solution 1. *[11Q]*