UM 204: QUIZ 4
February 9, 2024

Duration. 15 minutes

Maximum score. 10 points

Problem. Given $A, B \subset \mathbb{R}^n$, let

$$A + B = \{a + b : a \in A, \ b \in B\}.$$

Show that if A and B are compact subsets of $\mathbb{R}^n$ (in the standard metric), then so is $A + B$.