

Exercises

E9.94 [OTT] Topics: isometry. Difficulty: *. Let (X, d) be a compact metric space; let $T : X \rightarrow X$ be an isometry, then T is surjective.

Provide a simple example of a non-compact metric space and $T : X \rightarrow X$ a non-surjective isometry.

Solution 1. [OTV]