Exercises

13.17 [15C] Let (X, d) metric space and $\mathcal{F}$ the set of uniformly continuous functions $f : X \to \mathbb{R}$, show that $\mathcal{F}$ is a vector space.

This is more generally true if $f : X \to X_2$ where X_2 is a normed vector space (to which we associate the distance derived from the norm).

Solution 1. [15D]