

## Exercises

E16.2 [1D1] Prerequisites: [0T5]. Let  $f, g : \mathbb{R} \rightarrow \mathbb{R}$  be two functions that can be differentiated at every point. Show that  $\max\{f, g\}$  is differentiable, except on a set that is at most countable.

**Solution 1.** [1D2]