Exercises

E13.2 [14T] Prerequisites:Riemann integral.

Given a continuous function $f = f(x, y) : \mathbb{R} \times [0, 1] \to \mathbb{R}$, setting

$$g(x) = \int_0^1 f(x, y)\mathrm{d}y \quad ,$$

show that g is continuous.

Solution 1. *[14V]*