

Exercises

E10.25 [OZM] Prerequisites: [2CS], [118]. Inside the Banach space $X = C^0([0, a])$ endowed with the norm $\|\cdot\|_\infty$ we consider

$$K = \{f, f(0) = 0, \forall x, y, |f(x) - f(y)| \leq L|x - y|\}$$

where $L > 0, a > 0$ are fixed.

Estimate $N(\rho)$ for $\rho \rightarrow 0$ [[OZN]]