Erratum for Chapter 8 of Lecture Notes

- Page 125, line -5 and -4:

  For any compactly supported simple function $f = \sum\limits_{k=1}^{N} a_k \chi_{EK}$, for any $g \in \mathcal{D}$, there exist finitely many measurable sets $\{F_k\}_{k=1}^{M}$ such that

  $$\int_{\mathbb{R}^d} |f - g|^p = \sum_{k=1}^{M} \int_{F_k} |a_k - g|^p.$$

- Page 127, Minkowski's integral inequality should include the case $p = 1$.

- Page 128, line 4, ..., then $f * g \in C^m(\mathbb{R}^d)$

- Page 133, line 5, ... $= x^*(T^{-1} \circ T) = x^*$.