Folia	Zadanie
5.2	Prove, that the mapping $U \ni u \to C\|u\| \in \mathbb{R}_+$ is a norm on U equivalent to $\|\cdot\|$, if $C > 0$ and $(U, \|\cdot\|)$ is a normed linear space.
5.5	$\dim(U) < +\infty \Longrightarrow U^* = U'$
8.3	Prove the norms $\|\cdot\|_m, \|\cdot\|_{0,m}$ equivalence on $H_0^m(\Omega)$.
9.1	Prove, that the mapping defined by (46) is continuous.
9.12	Prove that $y_1 \in GS_{nhom}$.
11.7	Prove the above Proposition 10.
13.2	Prove that the following mapping is linear. $B: C^m(\Omega) \ni u \to \sum_{0\le\lvert\alpha\rvert\le m} a_\alpha D^\alpha u \in C(\Omega)$ (101)
13.8	Prove above theorem 21.
14.19	Prove that given the assumptions of Lax-Milgram lemma the mapping $\Theta: H' \ni \phi \to u \in H$ such that $a(u,v) =< \phi, v > \ \forall v \in H$ is a Lipschitz continuous bijection and Θ^{-1} is also continuous.
14.21	**iii.** Prove the symmetry of a assuming that $a_{ij} = a_{ji}$ almost everywhere in Ω as an **Exercise**.