Set Theory Home Work 3

1. 3.11.1(B)
2. Lemma 3.4.2.
3. Lemma 3.4.3.
4. Lemma 3.4.4.
5. Lemma 3.4.5.
6. Lemma 3.5.1 (ii)
7. Suppose $\alpha>0$ and β are ordinals. Let A be the set of functions $f:\beta\rightarrow\alpha$ such that $f(x)>0$ for at most finitely many x. Define $f<g$ if $f(x)<g(x)$ for the largest x such that $f(x)\neq g(x)$ and ($f(x)>0$ or $g(x)>0$). Show that $<$ is a well-ordering of the set A.