1. Carothers 5.28
2. Carothers 5.32
3. Let X be a metric space and let $A \subseteq X$. Show that $A = \overline{A}$ if and only if A is closed. Then show that A is closed if and only if whenever (x_n) is a sequence in A converging to a limit x, $x \in A$. Use only results from class; i.e. don't quote or reproduce Carothers 4.9.
4. Carothers 7.5
5. Carothers 7.10
6. Carothers 7.12
7. Carothers 7.15
8. Carothers 7.18
9. Carothers 7.19
10. Carothers 7.22