

1. Let (a_n) be a bounded (not necessarily convergent) sequence. Prove that it has a subsequence converging to $\limsup a_n$ and a subsequence converging to $\liminf a_n$.
2. Abbott 2.6.1
3. Abbott 2.6.4
4. Abbott 2.6.5(b)
5. Abbott 2.7.2
6. Abbott 2.7.4
7. Abbott 2.7.5
8. Abbott 2.7.8
9. **(Hand this one in to David.)** Abbott 2.7.9