HW #5, due October 3rd

Chapter 5: 4, 8, 10, 13, 15, 19, 21, 24

Extra Problems for HW #5

Problem 1: Prove the following lemma that was given in class:

A cycle of length $n$ has order $n$.

Problem 2: Find 6 subgroups of $S_4$ which are not $\epsilon$, $S_4$, $D_4$, or $A_4$. 