Always justify your answers, even if the question does not explicitly say so! Write your own solutions, independently of anyone else.

Core Problems: Everyone must turn these problems in.
I. Sec. 6.4 # 8, 9, 10, 12, 14 (Also show that in $S_4$, the only proper normal subgroups are $A_4$ and the subgroup $H$ of problem # 9.)

Advanced Problem: Advanced problems are due one week after the Core problems from the same assignment, unless announced otherwise.
II. Sec. 6.4 # 18 (You don’t have to answer the very last sentence of the problem, since I didn’t assign # 6.4.2. However, you will probably want to do parts of that problem first as practice for this one.)