Only hand in the starred questions!
Chapter 13, page 131: $5^{*}, 6^{*}, 7,9.10^{*}$.
Extra question:
A* Construct the character table of $A_{4}$. Do this by doing the following things: use (without proof) the list of conjugacy classes on page 130. Construct 3 linear characters of $A_{4}$, bearing mind that $A_{4}$ has a normal subgroup of order 4 with quotient which is cyclic of order 3 . Finally use the facts which appear in Chapter 13 to prove that the degree 3 character shown on page 130 is irreducible. Give a reason to show that you have constructed a complete list of the irreducible characters.

