Discrete Mathematics Extra problems for homework II.

Question. Show that every compound statement in $P_1, \ldots P_n$ which is not a tautology (output column consisting entirely of T's) can be written in *conjunctive normal form*. That is it can be written as a conjunction of simpler statements, each of which is a disjunction of simpler statements:

$$\wedge_i \vee_j Q_{ij}$$

where the Q_{ij} are the P_j or their negations.

Handout Questions. Do problems 5.6, 5.7, 5.8 and 5.9 from the handout (pages 190-191).