Homework, the 3rd series

Deadline: 15 May,   23:59.

(1) Prove that a variant of *CNF SAT*, where each variable occurs at most twice, is in the class P.

Hint. You may use an algorithm for matching in bipartite graph.

(1) Prove that a variant of *CNF SAT*, where each clause is a Horn clause or contains exactly two literals, is NP-complete.

Reminder. In a Horn clause, at most one literal is a variable (the others are negations of variables).

Reference.   Ch.Papadimitriou, Computational complexity, *Addison Wesley Longman*, 1994.