Independent Set

Given graph G = (V, E) & number k, find a subset $U \subseteq V$, $|U| \ge k$, such that there is no edge between vertices

Theorem: Independent Set problem is NP-complet proof: By reduction from a special type of Satisfability publem called (35AT.) danses in formula have at most 3 variables.

Griven formula $F = C_1 \wedge C_2 \wedge \cdots \wedge C_m$ over γ variables $\chi_1, \chi_2, \cdots, \chi_n$. $\gamma = 1 \quad \gamma =$

For each clause, use the following graph:

