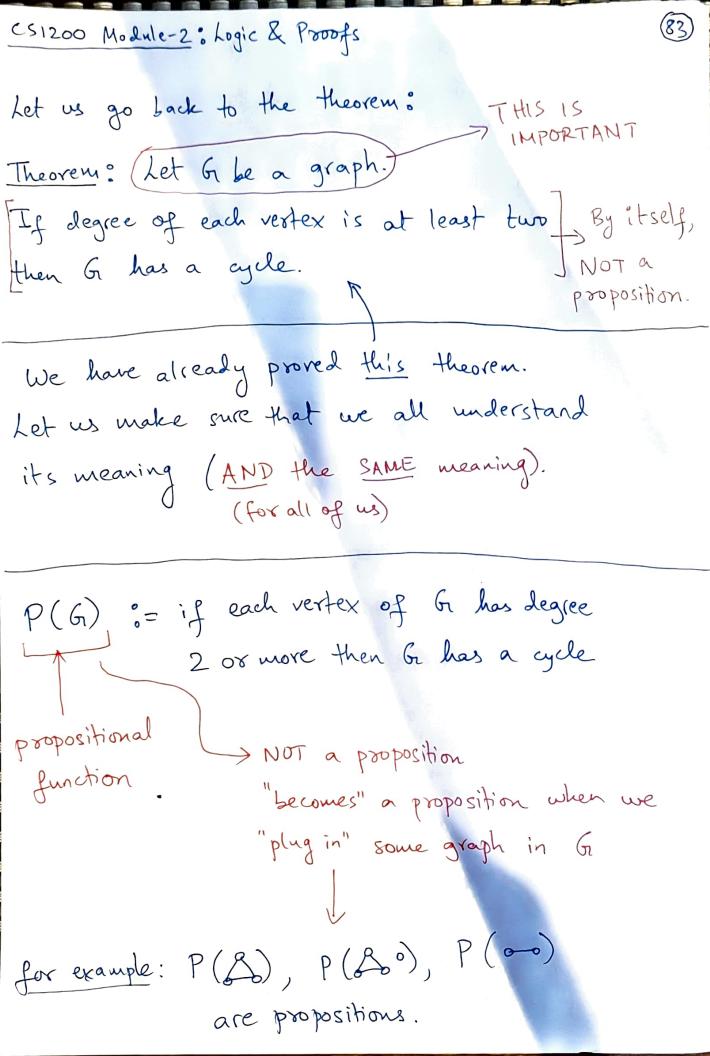


are propositions



Module-2: Logic & Proofs What is the meaning of the theorem? means for each graph G Theorem: Let G be a graph. If degree of each vertex is two or more (is TRUE). then G has a cycle. definition of P(G) another way to write this universal quantifier < P(G):= if each vtx (of 6) has degree YGE G 2 or more than G has a yde (read: for each levery /all) (Same) Theorem: + GEG: P(G) (is TRUE). set of all graphs The proposition HXET: P(X) is TRUE IF the proposition P(x) is TRUE for each x in the universe U; othewise it is FALSE.

