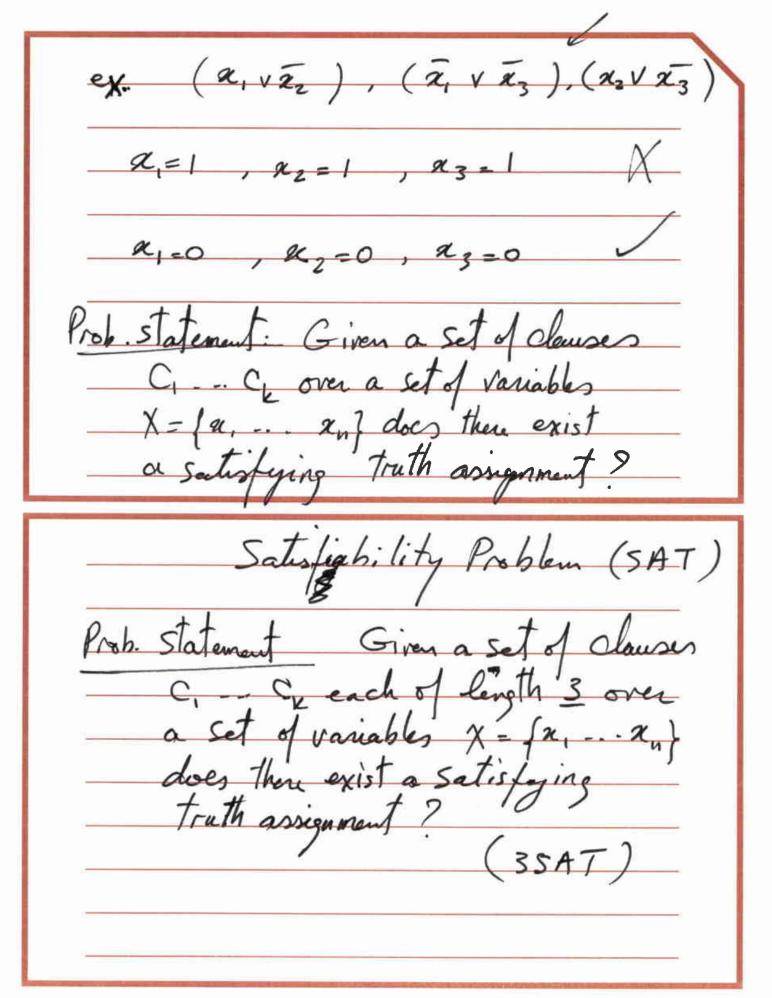
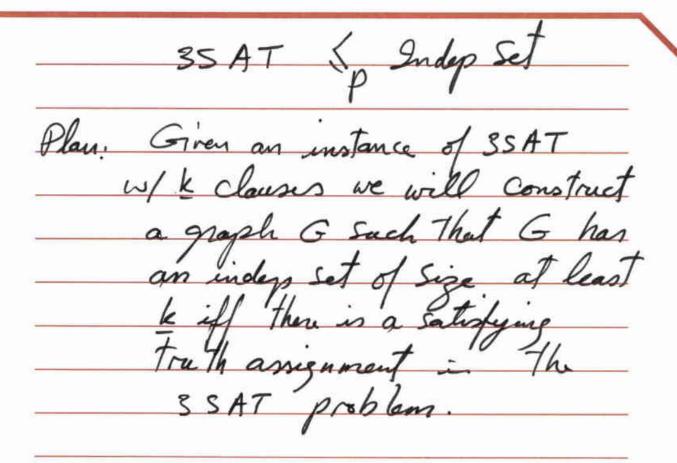
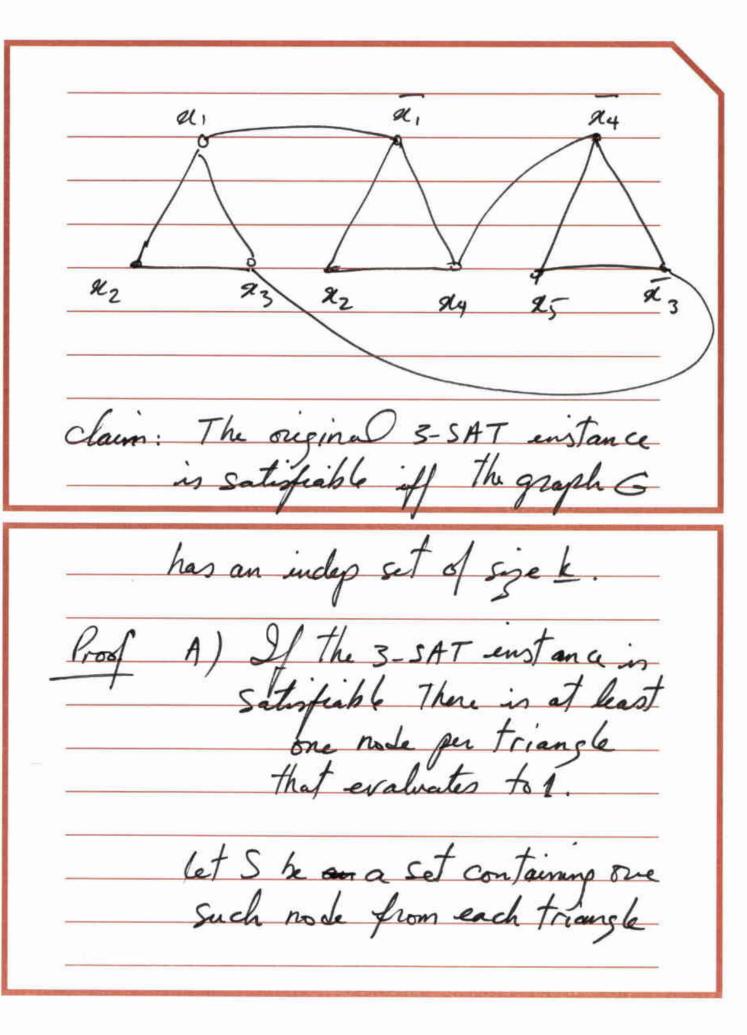
35AT VS Indep set
Reduction using gadget

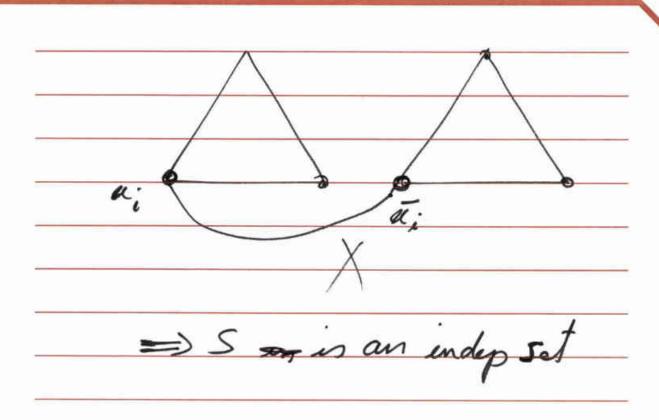
Given n Bookan variables 21, ... xn a clause is a disjunction of terms t, vt2 v. vtg where tie { x, - . x, , x, ... . x m - A track truth assignment for X is an assignment of valves of or 1 An assignment satisfies a clause C if it causes C to evaluate to 1 An assignment satisfiers a collection CIACIA- - . . CK et evaluates to 1.





eyaz vaz)		2
	a <sub>2</sub>	N3
$C_1 = (\chi_1 \vee \chi_2 \vee$		
2 = (Z, VX2		
3 = ( x4 V x	5 23	





B) Suppose 6 has an indep set 5
of size at least k.

If an appears as a nock in S,

then a = 1

If a i appears as a mock in S,

then a = 0

I neither a i now the appear as

a mode in S, then a = 1 or 0