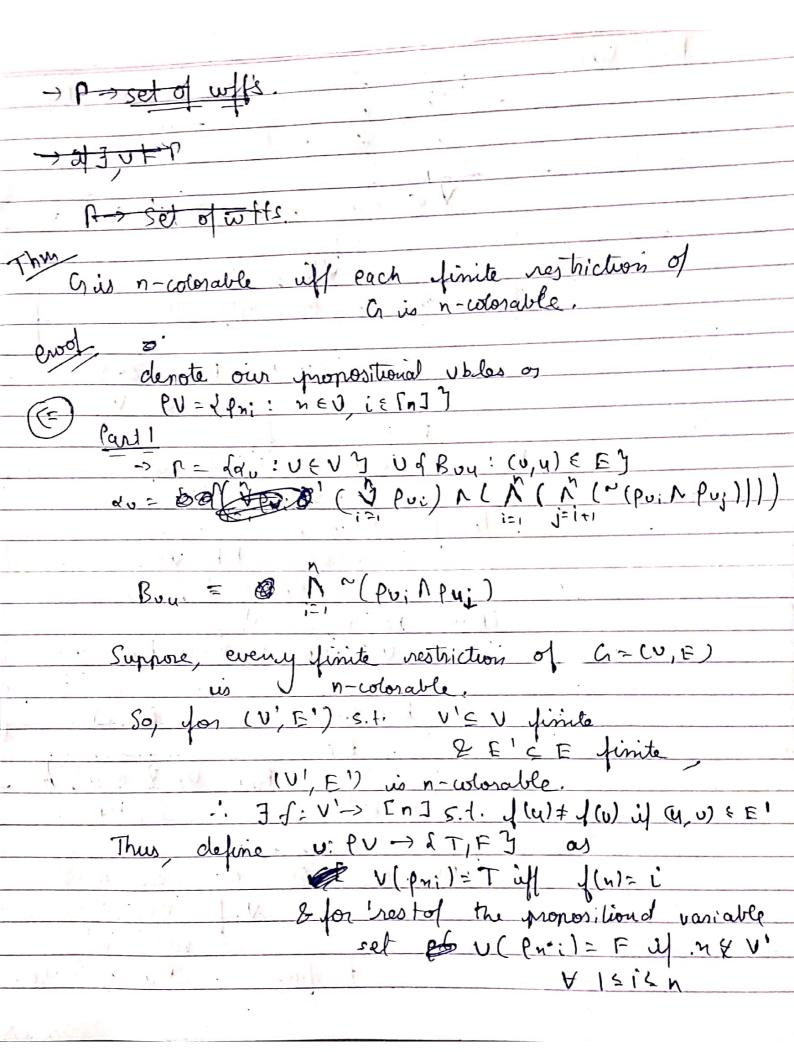
Co = (O)(O) V = C V x V V -> set of vertices



Now, take any finite subset Dof T, OSIT finite. Thus, notice, the set
J'Thus, notice,
who set
N'- 1 WEVY
V= 4v : 4v & 4 9, v < V]
: as & finile,
V'é finile
Thus, consider the edge set
E!= (v, y): Buy + \(\sigma \)
U, U + V1 3
E' is again finde. Mence Filt (v!, E') is a finite
nonce produce of lu E)
restriction: of (V, E)
Therefore it is n-colorable.
Hence take vas
Thus, notice > 0' U = ({\du: u \in v \text{Y} u \delta Bvy: (v,y)}
Thus notice > 01
U = (d dv : U = V 7 U d Bv4 : (v,4)
(E']
but does & gatisfy & D.
Ver ble
D - SBUC UYV OT UY
DI Buy E DI
Thus notice how we made
il la verticas
vertin V'
As Jake, : Buy is true.
11s javse, 10 y w

Hence,

i. Eurey finite subset of r us satisficates.

i. P is satisficate

Trivial