09.01.23 Agenda for meeting tromorrow with Port. Dr. Parke and Port. Dr. Whomid 1. Reduction 6 hour 3-SAT 76.6 is a satrifying unignment for ( If I R. R is a famille update sequence for 6(1). Def. . An uphate sequence is an ordered partition of V x P. Ret .: An update sequence is leavelle if it maintains blackhole - and congestion - breedom. Unice: 6(x)=1 or 6(x)=0 thria: Plu - Plu or Plu (u < u') or R u > u' Morie: Update u occur sefore update u in R (R(u) < R(u') (u < u') or u > u' 6(x)=1 / u = u R(u) ~ R(u')  $((\mathbf{w}_1, \mathbf{w}_2^{\dagger}) = )$ 6(4 For each variable x: wi o(x;)=1 if (wi, (X) > (wi, B)  $c(u^i, v^i) = 3$ For each dance (= (1, v1, v1,): ui = 0, vi 6(1,) = 1 if (vi, D,) < (vi, B) - how example How uplate network. longution unitaints: wa: (wi, B) < (wi, X) or (wi, B) < (wi, X) ui: (ui, D,) < (ui, B) or (ui, D,) < (ui, B) or (ui, D,) < (ui, B) (u; Da) > { (u; X) it the 1 st liberal in (; is possitive Markhale contraints: B: (v, B) < (s, B) < (w, B)

TX: (wi, X) < (ui, X) if the first 1 of liberal in (; in x;

X: (wi X) < (vi, X) if the 1st liberal in (; in x

 $D_4$ :  $(u_1, D_4) < (u_1, D_4)$ 

