

Find a satisfying truth assignment for the SAT instance above.

$$x_{p=1} \qquad x_{q=0} \qquad x_{q$$

Reduce the SAT instance above to a 3SAT instance using the method described in

1: ( x, yx, yV, ) ( V, yx ( Vx) (x, Vx, Vx) (N/2 destrol 2: (x, Vx, U Vr) n(x, Ux, UVr) 3. ( Z, V Xx U V, ) n ( Vx Nr, NV E) (Ven, X4 Nxx)

Find a satisfying truth assignment for the 3SAT instance

$$\chi_{1}=0 \qquad \chi_{4}=0 \qquad \qquad \nabla_{1}=0 \qquad \qquad \nabla_{5}=0 \qquad \qquad \nabla_{7}=0 \qquad \nabla_{7$$

en times repeat for SAT instance that is not satisfiable.