7(FixeR tyek, X2y > x=7 xy=1)= = tx = R Jy = R, 7 (x²y>X => xy=1) = EtxeR-Jyer, X2y>X N Xy 71 Consider a regation Statement · if X=0 then 0.4 > 0 is false for any y therefore conjunction is false and we can conclude that regarding statement is false. Original statement is true · Facts: a) ((SAP)=>(H.V.T) S = Student studies b) (7SNH VT) => P ·P = student hors a party c). P=>H. H = Student is happy T= S. talks a lot Given H can we say P. P. Fact c: doesn't allow us do make conclusion
H=> P by implication truth table Fact b: (-15 MUT) by precedence rule we To not depend on To but we depend on S. If we assume S=0=> (75^H)=1=> P. If S=1 we can't conclude P tact a: Il given I then HAT = 1 we cannot draw a implication truth table Similar to fact conclusion on P by

3 (7 X => Y) Z=> X \ X =

 $= -(-X \land -Y) = X \land Y =$ 

 $= \neg(\neg x \wedge \neg y) \wedge (x \wedge y) \vee \neg \neg(\neg x \wedge \neg y) \wedge \neg(x \wedge y) =$ 

remove by 7