Joseph Blodgett LS 386 HW8 1) - [](f + <>g) (fU(gv!f) [false] + fifit matches, fu(gv!f) but there is no g. $-\chi(<)f1) \leftrightarrow (\chi f1)$ | False | 50 - 50 - 60 | 50 meets x (67 f1) | but wh x f1. - (fug) ug ++fillg-[true] by idempotentcy. (f ug)ug = In 20: (YEn] Fg NOSKEN; NOW) #(Inzo: (TiEn] 691 YOSKEN! HO all so will want AB = ABB Finzo: (Min) Fg No sken: N(K) FT (n) Fg, 1, to sken: NCK) Inzo: (MIN) Fg1 YOSKIN in[k] Ff) which is fly. - [](f1x(C)f)) +1 []+ [True] [](f1x(of)) == []f1[]x(x)f)) - </F/>
/(C)+)) ++ <>f Fx/60 0+0+0+0+0

not ex(fax(CF))

2) A(F(A(G(P)))) stringth F(G(P))

O - Satisfies LHE Flop but not in so C+L AF HGp.

-it any possible path setistics AFAGP, then all paths will satisfy FGP, thus all structures that satisfy the CTL will satisfy goes vin s, to se to be in the LH.

- The path that cycles on so has the potential path to hit S., thus violating AGP, but LtL treets any path that Separately,

- thus if we want to say once p, all paths lead to p, use CTL.

3) GF, > AG(EFp)

because the 50+5, path will always exist AG(EFp) is always satisfied on the Path that loops so, when so, so, so,... does not satisfy GFp,

- Any structure that all paths Clubally meet FP will have at least one Path that needs it thus all stricture that meed the LTL will satisfy the CHL formula.

4) at $E(G(F_p)) \neq E(G(E_{F_p}))$ Satisfies $E(G(F_p))$ but not $E(G(F_p))$ as

There is no path that leads
to always = las you can

get caught in aloop is so

but that path always

exists, thus

E(G(FP)) 7 E(G(FP))

Schisfies $EG(F_p)$ but not $E(G(AF_p))$ because there

exists a path when Globally

Future P_j but because there $E_{x,sts}$ an escape from the loop

son S_j AFP can never be $E_{x,sts}$ for $E_{x,sts}$ ind. $E(G(AF_p)) > EG(F_p)$

5) EFP 11 EFQ == EF(P1/2)

yes they an equilavent, all wind asking is that there is a porag, which both formules gury preparely

6) AFNII AFQ != HF (P119) No

A FOIL AFQ but not will HF [PIN]