base case(s) IH -> thing proving what you're proving go arbitrary) $P(L_g)$ $P(t_1) & P(t_2) \rightarrow P(Br(x,t_1,t_2))$ (n,t_1,t_2) Ht & Toces. P(t) arbitrary) RTP modpre (t, l) = pre(t 0 l)Bose case: t=Lg: modpre(Lf, L) = b = []@l = preLf@b 1H:____ t=も: Assume modpre (t, b) = pre t, @ b & modpre(tz, l) = pre tz @ l Inductive Step: t = Br(x, t,, tz) RTP moder (Br(x,t,,t2), L) = pre(Br(x,t,t2)) @ L modere(Br(x,t,,t,), l) = 2:: modere(t,, modere(t,, L))

n:: modere (t,, pre tz @ 1) pre t, @ (pre t20 l) property of @ : associativity $x:: (pret_1 \otimes pret_2) \otimes ($ (x:: (pre t, @ pre t2)) @ l pre Br (2, t,, t2) & U O= possibly necessarily M = (W, R) (n,y) (n,y) ER Rxy W = {x,y, 23

一 20,17 p: L -> Pow(W) M: ({ 2, y, 23, {(2,y), (2,2), (2,y)}) (P) = all the worlds in which Pis True = 2 {y, 2} p(Q) = {2} = ¬□¬A Reglexive = always her Transitive Symmetric