DATE

紫七次作业.

6.

Axiom  $\frac{P(Z,f(Z)), \forall x P(X,f(X)) \vdash P(Z,f(Z)), \exists y P(Z,y)}{P(Z,f(Z)), \forall x P(X,f(X)) \vdash \exists y P(Z,y)} \forall L, \forall R$   $\frac{\forall x P(X,f(X)) \vdash \forall x \exists y P(X,y)}{\forall x P(X,f(X)) \rightarrow \forall x \exists y P(X,y)} \rightarrow R$   $\vdash \forall x P(X,f(X)) \rightarrow \forall x \exists y P(X,y)$ 

7. id: ig (M,Z) = Yx3yP(X,y) 从初对 aEM有在bEM,使对任何6有 (M, I) = & [x:= a, y:= b] P(x,y) (\*) 全 Sa={ b | (\*) 成至} · Sat p 且 Sa E P (N) ·由Ac知,有P:P(M)→M使P(Sa) = Sa 因此 (M, I) 片(X=q, y=pcsa)j P(X,y) ② F: M→MØF: F(a) = P(Sa) (a∈M) 全工的招展使工(f)=F : (M, I') = 6[X = a, y := F(a)] P(X,y) : (M, I') FOTX=a] P(X, EX) 从面(M,I) F YXP(X, 平x)

·· YXP(X,fix)可漏及.

8. Ho = {c} H<sub>1</sub> = {c} U {f(c)} H<sub>2</sub> = {c, f(c)} U {f(c), f(f(c))}

HA=U(Hn/neN3 = (c, fcc), f'(c), ..., f'(c), .... }

9. 证: 1=0时, Ho=くco} or Ho=くco}