4, 1(0) = 0 f [10] = [0] f [[0,2,4,0,...] = { 0,1,2,3, ... } f[{1,3,5/...}] = { [} f [[2]] = [4] f [3,4] = [0,8] (4) (a) 排稿制, 準制, 非双射 (b) fin) = { < n, n+1> | n ∈ N } f-1(s)= Ø (c) R= IN (a) 排放射, 海利, 排双射 (b) f([0,]) = [4,] (s)= [0, \frac{1}{2}] (c) R= I [o]

岩A 为有限集 (f.gcAA) 四一个身场为双射,不满足逐步, ⇒ A为元度案 万好的多A为了较来 => 13 A= N f(N)= 引力的数 g(X)= 分型 粉酸 大的胸膜 9. (1) MEN 老存在函数十两年村 (2x) H(x) = (x)+(x) → B中至方有mf元系、与A中断元标花 12) M>1 若存在函数+加満射 e) 446B, 3x, fg=7 → A中至少有 n 个元素, 与 B 中间流流过程 (3) m=1 m=1 由(1)(2)たe m=n =>m=1 Tand > V beB, 2xeAnfix)=b g 羊射 ⇒ ∀ b ∈ B, 王唯- g(b)= jx (x ∈ A n f(x)=b) 因此若十端村,为3分羊村 生还不成之

12.
$$\forall \langle x, y \rangle \in f \rightarrow \langle x, y \rangle \in g$$
 $x \in A$
 $x \in C$
 $\forall \langle e C \rightarrow x \in A \rangle (\exists 2) \langle x, z \rangle \in f$
 $\exists \forall \langle x, y \rangle \in g \Rightarrow \langle x \in C \rangle (\exists 2) \langle x, z \rangle \in f$
 $\exists \langle y \rangle \in g \Rightarrow \langle x \rangle (\exists 2) \langle x, z \rangle \in g$
 $\exists \langle y \rangle \in g \Rightarrow \langle x \rangle (\exists 2) \langle x, z \rangle \in g$
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 $\exists \langle y \rangle \in g \Rightarrow \langle x \rangle (\exists 2) \langle x, z \rangle (\exists 2)$

