12(4/4/)

L2((2((4)))

N_{MP}

{ Ø } 0 0 0 0 0 + 0 ++

(₁ (*)

0-{} 1 = {0} ? = 1Nvn = 1+1Nvn 1= {

1 = {*}

 $N_{mp} = 1 + N_{mp}$

1 + INmp = { (4)} \((x) | x \in INmp \) = INMP

A + B + C

IN = 1+1N

E = N + ExE + ExE + E

 $F: \times \mapsto \mathbb{N} + \cancel{\times} \times + \times \times \times$

F = KIN + idxid + idxid + id

$$P: \times \longrightarrow P \times$$

$$f: \times \rightarrow \mathcal{G}$$

$$Pf: PX \rightarrow PY$$

$$Pf(A) = f_*A = f[A] = \{f(x) \mid x \in A\}$$

$$(F \times G)(A) = FA \times GA$$

$$(F \times G)(f) : FA \times GA \rightarrow FB \times GB$$

$$(\times_{1}, \times_{2}) \longmapsto ((Ff)(\times_{1}) , (Gf)(\times_{1}))$$

$$(F+G)(A) = FA+GA$$

$$(F+G)(f): FA+GA \rightarrow FB+GB$$

$$\iota_{1}(x_{1}) \longmapsto \iota_{1}((Ff)x_{1})$$

$$\iota_{2}(x_{2}) \mapsto \iota_{3}((Gf)x_{3})$$

$$R \times = \mathbb{C}^* \longrightarrow (\times \times \mathbb{C}^* + 1)$$

$$R = \mathbb{C}^* \longrightarrow (\times \times \mathbb{C}^* + 1)$$

$$I_0 = \emptyset \qquad I_{n+1} = FI_n \qquad I_{-\infty} = \bigcup_{n=0}^{\infty} I_n$$

•
$$FI \subseteq I$$

vsala kontra
$$A \leq^k I = \bigcup_{n=0}^{\infty} I_n$$
 lezi ze v neken vmesnen tlenn I_m .

$$\frac{1}{1}$$
 ind.

$$I_{m+1} = FI_m \subseteq FX \subseteq X$$

$$P(O) \wedge (\forall N, P(N) \Rightarrow P(N)) \Rightarrow \forall M, P(M)$$

$$\forall m \in \mathbb{N}. P(M) \wedge P(M)$$