

ac H T (A,13) Yf & B B or EA: 4(sif) = toe were generally: I (A,B) = true wears if t is given out be 3, it can provide an a e A I(A,B)= Ine nears: &T has

no Morce on B, it ca provide any b & B if it has free droome of elects of A

V:R+JF

(1) \$\delta': \delta(R) +> \delta(F) \$(A,B) = tre iff YacA 366 B; \$(9,6) = tre

2) \$: L(F) +> L(R) P \$ (A,B) = true off YacA 36 cB: \$(a,b) = trese $\oint : \left(L(F) \stackrel{m}{\nearrow} x L(R) \stackrel{op}{\longrightarrow} \longrightarrow \text{Bool} \right)$ $L(R) \stackrel{op}{\nearrow} x L(F) \longrightarrow \text{Bool}$ $\underbrace{So} \stackrel{f}{\Rightarrow} = \stackrel{f}{\Rightarrow}$

3 φ : $\mathcal{N}(\mathcal{K})$ \longrightarrow $\mathcal{N}(\mathcal{F})$ φ $\varphi(A,B) = twe iff \quad \forall f \in B : \exists r \in A : \varphi(r,f) : twe.$ $B \leq B' \quad \forall f \in B' \; \exists r \in A : \varphi(r,f) : f$

 $(9) \phi : \mathcal{N}(F) \rightarrow \mathcal{N}(R) \quad \text{with} \quad \beta = \beta''$

$$\phi: R \rightarrow F \qquad \phi: R \rightarrow U(F) \\
\tilde{\chi}(r) = \{f \in F \mid \phi(r, f) = T \}$$

$$\tilde{f}: \mathcal{G}(R^{ap}) \rightarrow U(F) \qquad ?$$

$$A \mapsto_{a \in A} \mathcal{G}(a) \\
= \{f \in F \mid \exists a \in A : \phi(a f) = T\}$$

$$- \nabla \tilde{f}: \mathcal{G}(R^{ap}) \rightarrow U(F)$$

$$\mathcal{G}(R) \rightarrow \mathcal{G}(F)$$

$$A \mapsto_{a \in A} \mathcal{G}(a) \\
\mathcal{G}(R) \rightarrow \mathcal{G}(F)$$

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\mathcal{G}(R) \rightarrow \mathcal{G}(a) \\
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\mathcal{G}(R, K) = T \qquad \mathcal{G}(A, K) \\
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\mathcal{$$

 $\otimes: \mathcal{U}(\mathcal{L}(R)) \times \mathcal{U}(\mathcal{L}(R)) \longrightarrow \mathcal{U}(\mathcal{L}(R))$