

r + ... Dones (domain) [:= x1:5,...,x,:6, dom (P) := (x1,...,xn) Napromencon (sub context) $\Gamma:=x_1:G_1,...,x_n:G_n$,

l' E l'amornoest wo go noprepus

1. dom (7) = () $\Gamma' = \chi_{d} : \sigma_{d} / \Gamma' = \phi$ $Z, \qquad \Gamma := \chi_1 : \nabla, \chi_2 : \nabla_2 / \chi_3 : G_3$ 3. $P = \{ x_1, x_3, x_4 \}$ $P = \{ x_1, x_3 : x_3 : x_4 \}$

L. P+ M: 5 => FV(M) = dom (P) L. (o pay 5a buenum, thining) P, D - nonmercus 4 D Z P, no morga 1 - M: 0 => 1 + M: 6 2 (о интускрусточни портерия) M, N=> KW M'- ano nopmepus M 17 + M: 6 => P+ M: 6 L (0 cynanice kommencens) PHMG => PAFV(M) HMG

FM 1 × (xx): 0 1. XX: 5 => 32, 2000 sebaces X: 2-> 5, upobles X: 2 2. X & dom (P) 2-50-2 X: 7 / (xx): 5 7 w: 6 × 12:6 X Y: 6

(MN): 6? => N: ?H M: 62 H: 2 F 3:6 ME 12 cua so represensation (WN), can 7 noung-16
pepyriques noungerigas ero K B-KP = 2000 = 2000 = 16 ME I -> Clicko nopula enegeration (SN) com y nocuep-16
pepyniques nouseoper co N B-49 KII - SN KIJZ-WN + Tepus WN WW Cumerus Trend & Tepucae SN SN 2 - SN

"uno momen cregrendes "uconoso" upu popquegen? Mepur mones y bedures a $(\lambda f_x. f(f_x)) M \rightarrow_{\beta} \lambda x. M(Mx)$ Tepere cuomes pas cellonees ce (\ fx. f (fr)) ((\ y. M) N) -> B \ X. [(dy. M) N] (\ [(dy. M) N] x) Манут полвиние повал реремен $(\lambda f_x. f(f_x))(\lambda y. M) \rightarrow_{\mathcal{B}} d_x. (\lambda y. M)((\lambda y. M) x)$

$$((\lambda x, x)(\lambda y, M)N \rightarrow_{B} (\lambda y, M)N$$

$$\begin{aligned} & 5: \ \mathcal{P} \Rightarrow \ \text{len} (\sigma) - \text{nownerm bo cipe lok} \\ & 6: \ \mathcal{P} \Rightarrow \ \text{ord} (6): \\ & - \text{ord} (6): \\ & - \text{ord} (6): \\ & - \text{ord} (d_1 \Rightarrow d_2 \Rightarrow \mathcal{M}_n) = \max \left(\text{ord} (d_1), \dots, \text{ord} (d_n) \right) + 1 \end{aligned}$$

$$& \text{ord} \left(\left(\sigma_1 \Rightarrow \sigma_2 \right) \Rightarrow \sigma_3 \right) \Rightarrow \sigma_2 \right) \Rightarrow 3$$

$$& \text{lond} \left(\left(\left(\sigma_1 \Rightarrow \sigma_2 \right) \Rightarrow \sigma_3 \right) \Rightarrow \sigma_2 \right) \Rightarrow 3$$

$$& \text{lonows paperes } h$$

$$& \text{M: 2, N: 6} \qquad h \left(\left(1 \times 6 \cdot M \right) N \right) = \lim \left(6 \Rightarrow \epsilon \right)$$

$$& \text{M in } \left(M \right) = \left(h_n \cdot \left(M \right), \# M \right) \qquad h_1 \leq h_2 \qquad h_2 \leq h_2 \quad h_3 = h_2, \quad h_4 \leq h_2 \end{aligned}$$

WN: Teopenia o mon os nopulacina a os Th. M: Te A -, no I za Equiaiougas ca pepy - a opa 8-19. Dov-les: hn (M) $M \rightarrow_{\beta} N \Rightarrow \mu(M) \subset \mu(N)$ (6, 2) > (6, 1)

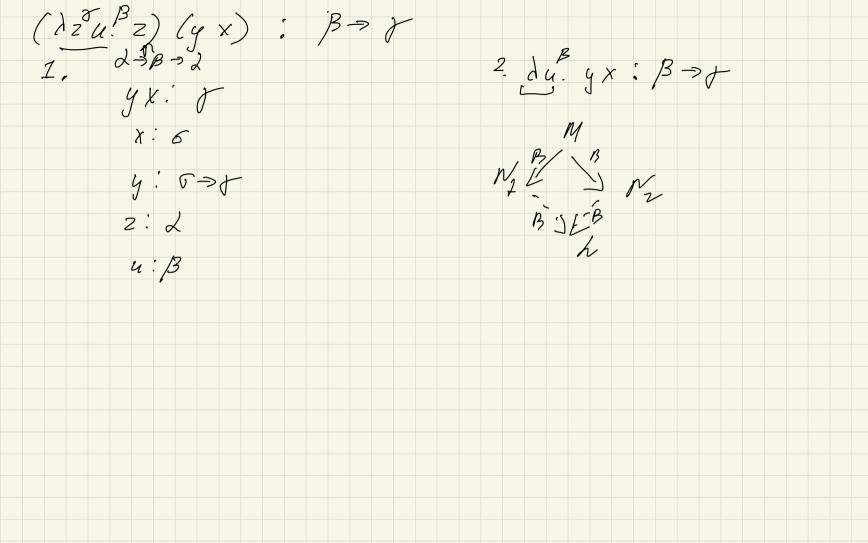
M
$$\{x := N\}$$

Topens to be much

 $\{x := N\}$
 $\{x := N$

 $\chi: z \rightarrow z \vdash (\lambda y^{z \rightarrow z} \xrightarrow{\beta} x) : (z \rightarrow z) \rightarrow \beta \rightarrow (z \rightarrow z)$

 $\Gamma, x: \xi \rightarrow \xi \vdash (\lambda y^B, x): \beta \rightarrow \xi \rightarrow \xi \qquad \Gamma \vdash \lambda + \xi + \xi \rightarrow \xi$ Γ - (dy B + E +): B -> E The perguegees conserved $M \rightarrow \mathcal{B}$ N, marger $P + M: \mathcal{T} \Rightarrow P + N: \mathcal{T}$



$$\begin{array}{l}
\lambda(\zeta) \coloneqq C \mid V \mid \Lambda(\zeta) \Lambda(\zeta) \mid \lambda_{X} \Lambda(\zeta) \\
C \coloneqq \xi \mid_{\text{rue}}, f_{alse}, not, and, if, --3 \\
S = peggrugus \\
not frue \Rightarrow_{\xi} f_{alse} \\
\vdots \\
C \coloneqq \xi \vee 3 \\
S \times \vdots \\
S \times$$