

D- Tun been kinds Cog, bouenne rund 17; = 17;+1 = 17;+2 ~ ~ ~ . < 17, du - d - + neure , 30 ber couque on neurol (sort) 0 + +: 0 - sort rule (intro-var) PHA:S X4P S = + -> A - Tun (ne neoznaets nones peguniop), x - Tepier S= II -> A- kind, x- nonespyrunop neura

(wear) x4P L: +, x: + - L: * d: * B: * F B: * Weakening (Leuma) Thinning (Leurana)

dw X S=+ -> A, B- numy (d->) S=17 -> A, B- winds (elim =) P+M:A >B P+N:A pasoraem u gree neeperst, a pres nonespyrasops to remote $(\lambda L; \star . L \Rightarrow L) \beta \Rightarrow \beta \beta \Rightarrow \beta$

(intro-abst)
$$\frac{\Gamma}{x:A} \leftarrow M:B$$
 $\Gamma \leftarrow A \Rightarrow B^{\alpha}_{-}S$

$$\Gamma \vdash \lambda x:A. M:A \rightarrow B$$

$$S = + , \quad A \Rightarrow B \rightarrow num, \quad num \neq nu$$

Theodia sola was runs.

(con v)

- B

- B

B' Tegynque Cep Soent a Tegymens Tuna PHA: B

JB

B' 7 HA: B B A' PHA:B THA:B' (com T+B':s) Pt A: B' (eccu P+B:s)

Tepun Tien -> Koningrunop niena

IP = 1 , + number, nomespace 30 beccom em negrue

5 - any

std:: arroug (10)

$$(sont)$$

$$P + A:S$$

$$P + A$$

N-nun -onio порме ножество стреногийна пенов A -> B (& Brem clasoquen x) N_(x:A) 13 $\chi \rightarrow B$ Hx. B(x)

is Prime (x)] 5 AFP Calculus of constructions x: nat

(intro
$$\Rightarrow$$
) $P + A : s$ $P + B : s$
(intro P) $P + A : s$ $P +$

Orebupuse y seuce believe believe;

- sont, var, week x: P + x: P - d = /d2 0 - x: 17 - 2 - AP dw d:x 13:4 + 13:4 rpA:S P+P:S d, *, B: * -> * - B(BL): * 1-A > B15 (4) \L: \ PX: A - MiB P+AZES (z) $\beta: \times \rightarrow \star$ PH Ax: A. M: A > B (3) | Bd: * (elim > on 1,2) (2) x: L $\beta(\beta L): \chi \qquad (elim \rightarrow \delta n \ 2, 3)$

(0) (x: 5: 4, x: 1 - 2 y x: (28:4. 18-18) 2 L: + (context) [x:d] (confext) | d > d: + | (intro > an 9, a) (introvan on a)

[X:4] (introvan on a)

[Ay. X: L > L (introvabst d, e, c) B:+ (intro van ano) (B > B: x / (intro -> on 4,4) (3) [18:4. 13=13: x = x (intro abst 4,5) (dB: 4. 13-713) L: + (Rlin -> on 3, 8) 1 29° x: (1B: x - B = B) 1 (conv

(sort)
$$B + *: \square$$

(intro-ven) $P + A:S = X \notin P$
 $P, x: A \vdash X: A$

(week) $P \vdash A: B = P \vdash C: S = P, x: C \vdash A: B$

(intro \Rightarrow) $P \vdash A: S = P \vdash B: S = P \vdash M: A = B = P \vdash M : A \Rightarrow B = P \vdash M : A \Rightarrow B$

(intro-abst) $P \vdash M: A \Rightarrow B = P \vdash M: A \Rightarrow B = P \vdash A: B = P \vdash A: B = P \vdash A: B = P \vdash B: S =$

(intro 17 on 2,2) A > *: [] A -> * . = N *

Yaing, za buce uzus om mepua P: A -> *

> Tun, 30 becaused on negresa

(1)
$$S: * J$$
 $Y: S | S > * Y$ (intro $\Rightarrow 1$)

(2) $V: P \times \Rightarrow Q \times J$ (intro $\Rightarrow 2$)

(4) $V: P \times \Rightarrow Q \times J$ (intro $\Rightarrow 2$)

(5) $V: S \times \Rightarrow Z$ (intro $\Rightarrow 2$)

(6) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(7) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(8) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(9) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(10) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

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(11) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(12) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(13) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(14) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(15) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(16) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(17) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(18) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

(19) $V: P \times \Rightarrow Q \times Z$ (clim $\Rightarrow 2$)

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