data list (A: Set): Set where T]: List A :: A Jut A Jut A

 λ - calculus

1 x. x tu application abstraction

 $(\lambda x. \lambda y. y x x) (\lambda z. z)$ $\alpha - conversion (\lambda \omega. w)$

free/bound occurrences of variables

d-equivalence: t, u x-equi

B - reduction $(\lambda x, t) u$ t[u/x]: replace all free occurrences of x $(\lambda x. (\lambda y. x))$ λy. j $\frac{1}{2} \left(\lambda_{X}, \left(\lambda_{z}, \chi \right) \right) \xrightarrow{\mathcal{Y}} \lambda_{z}, \chi$ Lapture a soid a nu

X.X. 77.7 λχ. λη. χ $\lambda(\lambda 1)$ de Bruijn indices

7. (x(x) = 3)

Church encoding 0:= 35、2 $2 := \lambda 5. \lambda 7. \lambda 5.$ $N := \lambda 5, \lambda 3 \quad 5 \quad (5 \cdots (5 2))$ plus m n -> m mtn

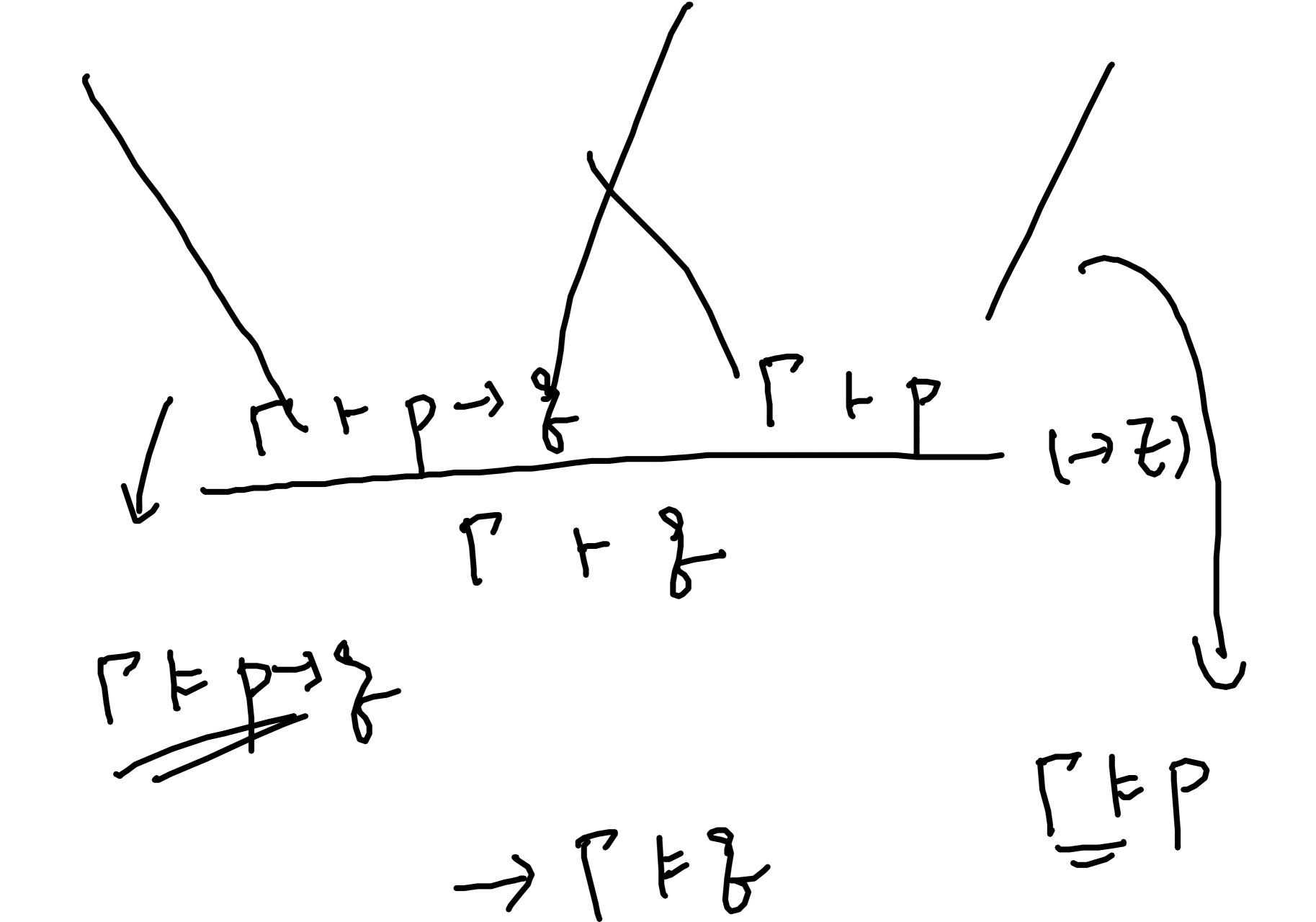
 $(\lambda x. \dot{x}\dot{x})^{R}(\lambda y. yy)$ \rightarrow $(\lambda y \cdot y \cdot y) (\lambda y \cdot y \cdot y)$

h = A713 ??

$$\frac{A + A}{+ A \rightarrow A} (AS) um)$$

XX.X

P => 2



$$V \rightarrow B \times \{S \leq R \mid S \text{ open }\} = : 0$$

$$T = T : PROP \rightarrow (V \rightarrow 0) \rightarrow 0$$

$$T \text{ at m } \times T = T \times P \text{ is true}$$

$$T = PPT - V = TPT - V = R$$

$$T = PV = TPT - V = R$$

$$T = PV = TPT - U = R$$

Pv¬p is valid = V J: V > Q. [pv1p] = R pv ¬p is not valid EJO: V-DO. TPV7PIJ07R FN= {x < R | x < 0} [P]= { x < R | x > 0} エートコーニアコーコー = { x e R | x ≠ o } × p = [p] o U[x] o 4 p~7p]

